

## 5 Queensborough Terrace



<b>Job number:</b>	HO
<b>Date method issued:</b>	Monday 1 <sup>st</sup> July 2024
<b>Revision:</b>	0

<b>Client:</b>	GEM
<b>Site address:</b>	5 Queensborough Terrace London W2 3TA

<b>Prepared by:</b>	Luke Mulvey Contracts Director	<b>Date:</b> 01.07.2024
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## 1 Project Directory

### Client contact details

<b>Name</b>	<b>GEM</b> <b>Environmental Building Services LTD</b>
<b>Client address</b>	<b>Mulalley</b> 1 Torriano Mews Kentish Town London NW5 2RZ  <b>Contact:</b> David Slater <b>T:</b> 0208 985 0409 <b>M:</b> 07779 120 506 <b>E:</b> David.slater@gemebs.com

### Other organisations

<b>Principal Contractor</b>	<b>Logan Construction</b>
<b>Licensed Scaffolder</b>	<b>Not required for these works</b>
<b>Analytical Laboratory</b>	<b>Airtech Analysis Limited</b> 298 Ongar Road Writtle Chelmsford CM1 3NZ  <b>Contact:</b> <b>T:</b> 01268 562 645 <b>M:</b> <b>E:</b> <a href="mailto:Info@airtech.org.uk">Info@airtech.org.uk</a>
<b>Contracted to:</b>	<b>AA Woods</b>

### AA Woods site attendance

	<b>Site Supervisor</b>	<b>Contracts Director</b>	<b>Health &amp; Safety Manager</b>
	<b>Tony Willing</b>	<b>Luke Mulvey</b>	<b>Gary Bambury</b>
	07738 196 294	07957 569 059	07387 108 690
	On site at all times	On site periodically or available via mobile phone	Unannounced visits to undertake site inspections or safety tours and / or audits or available via mobile phone
<b>Number of Employees on site:</b>	1 x Site Supervisor and 2 x Operatives		Names are recorded on the site register

## 2 Scope of Work

To remove and dispose of approximately 70 linear meters of 4" pipework lagged in MMMF insulation using the 'wrap & cut' methodology, the removal and disposal of 2no. boilers and 1 no. water cylinder. Once removed the encapsulation and residues to the walls and ceiling within the boiler room will be removed with needle guns from within the boiler room. This pipework will be isolated, drained down and purged by GEM prior to works commencing. These works will be undertaken under fully controlled conditions.

A small section of pipework will remain 'live' and must remain in-situ, this pipework will be identified with red and white tape.



### Site attendance

<b>Project start:</b>	Monday 15 <sup>th</sup> July 2024
<b>Project end:</b>	Friday 26 <sup>th</sup> July 2024
<b>Hours of work (Mon-Fri)</b>	08:00 ----- 15:30hrs
<b>Hours of work (Sat-Sun)</b>	08:00 ----- 15:30hrs

### 3 Enclosure Construction

#### DCU requirements:

DCU(s)	Single	Double	Quad	Toilet	Welfare	Direct connection (Y/N)
DCU #1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DCU #2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DCU #3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Modular #1	<input checked="" type="checkbox"/>					<b>N</b>
Modular #2	<input type="checkbox"/>					
Modular #3	<input type="checkbox"/>					

The Site Supervisor must ensure that the DCU is set up in accordance with our **SOP's** please refer to section 11, page 54.

#### Location of DCU

The modular DCU will be sited within the old nursery main space for the duration of the works. State here (if applicable) the reasons why a direct connection is not possible: **There is insufficient space to create a direct connection.**



Location of Modular DCU

#### Enclosure construction

Each enclosure is to be formed in accordance with our Standard **operating procedures (SOP's)**, please refer to section 13, page 66.

#### Airlock requirements:

Airlock(s)	3x1m <sup>2</sup>	4x750mm	5x600mm	Single stage	Other please state	Other please state
Airlock #1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Airlock #2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Airlock #3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

If you cannot install a minimum of 3 x 1m<sup>2</sup> airlock, state the reason here: **N/A**

Please refer to site diagram for location of airlock(s).

Airlocks to be formed in accordance with our **SOP's**, please refer to section 13, page 66.

**Bag lock requirements:**

Bag lock(s)	3x1m <sup>2</sup>	4x750mm	5x600mm	Single stage	Other please state	Other please state
Bag lock #1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Bag lock #2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

If no bag lock, state the reason here: **There is insufficient room to site a baglock**

**Air chamber requirements:**

Air Chamber(s)	1x1m <sup>2</sup>	Other Please state	Other Please state	Other Please state	Other please state	Other please state
Air Chamber #1	<input type="checkbox"/>					
Air Chamber #2	<input type="checkbox"/>					
Air Chamber #3	<input type="checkbox"/>					

**NPU requirements:**

NPU(s)	1500	1600	2000	4000	5000	Roving Head	① Total length (m)	Exhaust ducting	② Total length (m)	Total bends	Total length (m) ①+②
NPU #1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<b>4</b>	<input type="checkbox"/>	<b>0</b>	<b>2</b>	<b>4</b>
NPU #2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			
NPU #3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			
NPU #4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			
NPU #5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>			

Please refer to site diagram for location of NPU's.

NPU's to be selected in accordance with our **SOP's**, please refer to section 14, page 75.

**Access and egress:**

Will the works block a fire escape?	
Yes	No
<input type="checkbox"/>	<input checked="" type="checkbox"/>

If yes, please refer to Risk Assessment (Job specific) section for further details

**Enclosure supervision:**

CCTV	Vision panels
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Communication between inside and outside of enclosure:**

2-way radios	Verbal via airlock and / or vision panel	Other please state:
<input type="checkbox"/>	<input checked="" type="checkbox"/>	

**Smoke test / Integrity test:**

Options	Required	Witnessed by: Site Supervisor	Witnessed by: Analyst
Smoke Test	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Integrity Test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please state reason for Integrity test here: **N/A**

Smoke testing or integrity testing to be undertaken in accordance with our **SOP's**, please refer to section 13, page 66.

## Negative pressure unit (NPU) calculation

### 1. NPU calculation undertaken at notification stage:

Volume of enclosure	Width (m)	Depth (m)	Height (m)	Volume (m <sup>3</sup> )
<b>BOILER ROOM</b>	<b>4.5m</b> <b>0.75m</b>	<b>3.0m</b> <b>0.75m</b>	<b>3.0m</b> <b>2.0m</b>	<b>40.5m<sup>3</sup></b> <b>1.12m<sup>3</sup></b> <b>41.62m<sup>3</sup></b>
Size of Airlock	<b>0.75m</b>	<b>3.0m</b>	<b>2.0m</b>	<b>4.5m<sup>3</sup></b>
Size of Bag lock				
Size of Air Chamber x <b>1</b>				
Total Volume m <sup>3</sup>				<b>46.12m<sup>3</sup></b>
Minimum No. of air changes required: <b>10</b>				
Total volume m <sup>3</sup> = <b>46.12m<sup>3</sup></b> x 10 air changes = <b>461.2 CMH*</b>				
<b>NPU reduction***</b>				
Total L/m of ducting needed = <b>4</b> L/m @ 1% reduction per L/m = <b>4 %</b> reduction in CMH				
Total No. of bends in ducting = <b>2</b> No. @ 2% reduction per bend = <b>4 %</b> reduction in CMH				
Total = <b>8 %</b> reduction in CMH				
<b>Selected NPU</b>				
		Total number or NPU(s) required		
<input checked="" type="checkbox"/>	<b>1500 NPU = 2300 CMH</b>	<b>1</b>		
<input type="checkbox"/>	1600 NPU = 1600 CMH			
<input type="checkbox"/>	2000 NPU = 2000 CMH			
<input type="checkbox"/>	4000 NPU = 4000 CMH			
<input type="checkbox"/>	5000 NPU = 5000 CMH			
<b>Air changes achieved:</b>				
<b>2300</b> CMH less <b>8 %</b> reduction in CMH = <b>2116 CMH**</b>				
<b>2116</b> CMH divided by volume of enclosure @ <b>46.12m<sup>3</sup></b> = <b>45.88</b> air changes per hour				

### Notes:

\* A Three-Stage Airlock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
 A Three-Stage Bag lock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
 Therefore, depending on the enclosure set up additional airflow (CMH) may need to be allowed into the enclosure if the original airflow calculation (\*) exceeds 1500 CMH or 3000 CMH (depending on your set up) to achieve the necessary air changes per hour. Air chamber(s) will need to be introduced.

For example, an Air Chamber with a volume of 2m<sup>3</sup> allows a maximum of 4000 CMH into an enclosure. If you require an air chamber(s) then this must be accounted for when calculating the volume of the enclosure.

Pre-filters can also be placed within the enclosure wall. For guidance a 1500 pre-filter (with a weighted non-return flap) will allow between 100 and 200 CMH into an enclosure.

\*\* Each enclosure must have a minimum of 1000 CMH drawn through the airlock to achieve the required air changes.

You must achieve a minimum of 10 air changes per hour. (For external soffit removal you must achieve a minimum of 20 air changes per hour.

Lay flat hosing can only vent to atmosphere in a straight line.

Cloth hosing must only be used inside an enclosure.

Foil hosing must be used when venting to atmosphere (so outside the enclosure).

\*\*\* If you are using roving head(s) then the maximum length of ducting (per roving head) the roving head will be extended to, must also be accounted for when calculating the NPU reduction.



**2. NPU calculation undertaken prior to start date (using latest DOP test result):** **Note – if the NPU equipment is to be hired, then this task needs to be performed on-site)**

Volume of enclosure	Width (m)	Depth (m)	Height (m)	Volume (m <sup>3</sup> )
<b>BOILER ROOM</b>	<b>4.5m</b> <b>0.75m</b>	<b>3.0m</b> <b>0.75m</b>	<b>3.0m</b> <b>2.0m</b>	<b>40.5m<sup>3</sup></b> <b>1.12m<sup>3</sup></b> <b>41.62m<sup>3</sup></b>
Size of Airlock	<b>0.75m</b>	<b>3.0m</b>	<b>2.0m</b>	<b>4.5m<sup>3</sup></b>
Size of Bag lock				
Size of Air Chamber <b>x 1</b>				
Total Volume m <sup>3</sup>				<b>46.12m<sup>3</sup></b>
Minimum No. of air changes required: <b>10</b>				
Total volume m <sup>3</sup> = <b>46.12m<sup>3</sup></b> x 10 air changes = <b>461.2 CMH*</b>				
<b>NPU reduction***</b>				
Total L/m of ducting needed = <b>4 L/m</b> @ 1% reduction per L/m = <b>4 %</b> reduction in CMH				
Total No. of bends in ducting = <b>2 No.</b> @ 2% reduction per bend = <b>4 %</b> reduction in CMH				
Total = <b>8 %</b> reduction in CMH				
<b>Selected NPU</b>				
		Total number or NPU(s) required		
<input checked="" type="checkbox"/>	<b>1500 NPU = 2300 CMH</b>	<b>1</b>		
<input type="checkbox"/>	1600 NPU = 1600 CMH			
<input type="checkbox"/>	2000 NPU = 2000 CMH			
<input type="checkbox"/>	4000 NPU = 4000 CMH			
<input type="checkbox"/>	5000 NPU = 5000 CMH			
Selected NPU = <b>2300 @ XXXX CMH</b> (actual performance from latest DOP test). Serial Number <b>XXXX</b>				
<b>Air changes achieved:</b>				
<b>XXXX CMH</b> less <b>8 %</b> reduction in CMH = <b>XXXX CMH**</b>				
<b>XXXX CMH</b> divided by volume of enclosure @ <b>46.12 m<sup>3</sup></b> = <b>XXXX</b> air changes per hour				

**Notes:**

- \* A Three-Stage Airlock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
A Three-Stage Bag lock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
Therefore, depending on the enclosure set up additional airflow (CMH) may need to be allowed into the enclosure if the original airflow calculation (\*) exceeds 1500 CMH or 3000 CMH (depending on your set up) to achieve the necessary air changes per hour. Air chamber(s) will need to be introduced.

For example, an Air Chamber with a volume of 2m<sup>3</sup> allows a maximum of 4000 CMH into an enclosure. If you require an air chamber(s) then this must be accounted for when calculating the volume of the enclosure.

Pre-filters can also be placed within the enclosure wall. For guidance a 1500 pre-filter (with a weighted non-return flap) will allow between 100 and 200 CMH into an enclosure.

- \*\* Each enclosure must have a minimum of 1000 CMH drawn through the airlock to achieve the required air changes.

You must achieve a minimum of 10 air changes per hour. (For external soffit removal you must achieve a minimum of 20 air changes per hour.

Lay flat hosing can only vent to atmosphere in a straight line.  
Cloth hosing must only be used inside an enclosure.  
Foil hosing must be used when venting to atmosphere (so outside the enclosure).

- \*\*\* If you are using roving head(s) then the maximum length of ducting (per roving head) the roving head will be extended to, must also be accounted for when calculating the NPU reduction.

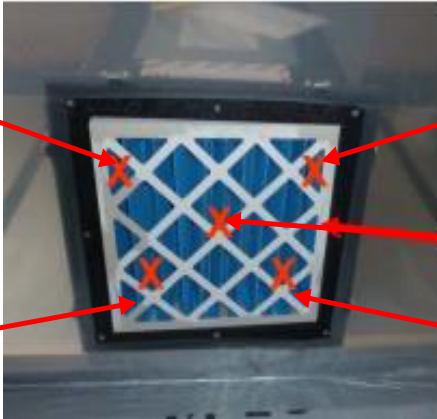
3. NPU calculation performed on site before enclosure goes 'live' using 5-point anemometer test (if NPU is not fitted with digital flow rate)

Volume of enclosure	Width (m)	Depth (m)	Height (m)	Volume (m <sup>3</sup> )
<b>BOILER ROOM</b>	<b>4.5m</b> <b>0.75m</b>	<b>3.0m</b> <b>0.75m</b>	<b>3.0m</b> <b>2.0m</b>	<b>40.5m<sup>3</sup></b> <b>1.12m<sup>3</sup></b> <b>41.62m<sup>3</sup></b>
Size of Airlock	<b>0.75m</b>	<b>3.0m</b>	<b>2.0m</b>	<b>4.5m<sup>3</sup></b>
Size of Bag lock				
Size of Air Chamber x 1				
Total Volume m <sup>3</sup>				<b>46.12m<sup>3</sup></b>
Minimum No. of air changes required: <b>10</b>				
Total volume m <sup>3</sup> = <b>46.12m<sup>3</sup></b> x 10 air changes = <b>461.2 CMH*</b>				
<b>NPU reduction***</b>				
Total L/m of ducting needed = <b>4</b> L/m @ 1% reduction per L/m = <b>4 %</b> reduction in CMH				
Total No. of bends in ducting = <b>2</b> No. @ 2% reduction per bend = <b>4 %</b> reduction in CMH				
Total = <b>8 %</b> reduction in CMH				
<b>Selected NPU</b>				
		Total number of NPU(s) required		
<input checked="" type="checkbox"/>	<b>1500 NPU = 2300 CMH</b>	<b>1</b>		
<input type="checkbox"/>	1600 NPU = 1600 CMH			
<input type="checkbox"/>	2000 NPU = 2000 CMH			
<input type="checkbox"/>	4000 NPU = 4000 CMH			
<input type="checkbox"/>	5000 NPU = 5000 CMH			

Point 1

Point 3



Point 2

Point 5

Point 4

	NPU #1	NPU #2	NPU #3	NPU #4	NPU #5
NPU serial number					
<b>Air velocity at filter face (Air flow)</b>					
Point 1 (Top left of NPU face)					
Point 2 (Top right of NPU face)					
Point 3 (Bottom left of NPU face)					
Point 4 (Bottom right of NPU face)					
Point 5 (Middle of NPU face)					
Total measured air velocity					
<b>Average face velocity = Total measured air velocity divided by number of total measured air velocity points</b>					
Per NPU	XXXX ÷ 5 = XXXX m/s				
<b>Filter face size (m<sup>2</sup>):</b>					
<p><b>NPU 1500 is 0.37m x 0.37m = 0.137m<sup>2</sup></b>            NPU 1600 is 0.37m x 0.37m = 0.137m<sup>2</sup>            NPU 2000 is 0.37m x 0.37m = 0.137m<sup>2</sup>            NPU 4000 is 0.61m x 0.61m = 0.3721m<sup>2</sup>            NPU 5000 is 0.61m x 0.61m = 0.3721m<sup>2</sup></p>					
	NPU #1	NPU #2	NPU #3	NPU #4	NPU #5
<b>Air volume flow in m<sup>3</sup>/s = Average face velocity multiplied by filter face size</b>					
Per NPU	XXXX x 0.3721 = XXXX m <sup>3</sup> /s				
<b>Air volume flow in CMH = Air volume flow in m<sup>3</sup>/s multiplied by number of seconds in an hour which is 3600</b>					
Per NPU	XXXX x 3600 = XXXX CMH				
Total of Air volume flow in CMH	XXXX CMH**				
<b>Anemometer Air changes achieved = Total of Air volume flow in CMH divided by volume of enclosure</b>					
	XXXX ÷ 46.12 m <sup>3</sup> = XXXX air changes per hour				

**Notes:**

- \* A Three-Stage Airlock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
 A Three-Stage Bag lock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
 Therefore, depending on the enclosure set up additional airflow (CMH) may need to be allowed into the enclosure if the original airflow calculation (\*) exceeds 1500 CMH or 3000 CMH (depending on your set up) to achieve the necessary air changes per hour. Air chamber(s) will need to be introduced.
- For example, an Air Chamber with a volume of 2m<sup>3</sup> allows a maximum of 4000 CMH into an enclosure. If you require an air chamber(s) then this must be accounted for when calculating the volume of the enclosure.
- Pre-filters can also be placed within the enclosure wall. For guidance a 1500 pre-filter (with a weighted non-return flap) will allow between 100 and 200 CMH into an enclosure.
- \*\* Each enclosure must have a minimum of 1000 CMH drawn through the airlock to achieve the required air changes.
- You must achieve a minimum of 10 air changes per hour. (For external soffit removal you must achieve a minimum of 20 air changes per hour.
- Lay flat hosing can only vent to atmosphere in a straight line.  
 Cloth hosing must only be used inside an enclosure.  
 Foil hosing must be used when venting to atmosphere (so outside the enclosure).
- \*\*\* If you are using roving head(s) then the maximum length of ducting (per roving head) the roving head will be extended to, must also be accounted for when calculating the NPU reduction.

**4. NPU calculation performed on site before enclosure goes 'live' using digital flow rate on NPU (if not fitted with digital flow rate, then the 5-point anemometer test is to be undertaken)**

Volume of enclosure	Width (m)	Depth (m)	Height (m)	Volume (m <sup>3</sup> )				
<b>BOILER ROOM</b>	<b>4.5m</b> <b>0.75m</b>	<b>3.0m</b> <b>0.75m</b>	<b>3.0m</b> <b>2.0m</b>	<b>40.5m<sup>3</sup></b> <b>1.12m<sup>3</sup></b> <b>41.62m<sup>3</sup></b>				
Size of Airlock	<b>0.75m</b>	<b>3.0m</b>	<b>2.0m</b>	<b>4.5m<sup>3</sup></b>				
Size of Bag lock								
Size of Air Chamber x <b>1</b>								
Total Volume m <sup>3</sup>				<b>46.12m<sup>3</sup></b>				
Minimum No. of air changes required: <b>10</b>								
Total volume m <sup>3</sup> = <b>46.12m<sup>3</sup></b> x 10 air changes = <b>461.2 CMH*</b>								
<b>NPU reduction***</b>								
Total L/m of ducting needed = <b>4</b> L/m @ 1% reduction per L/m = <b>4</b> % reduction in CMH								
Total No. of bends in ducting = <b>2</b> No. @ 2% reduction per bend = <b>4</b> % reduction in CMH								
Total = <b>8</b> % reduction in CMH								
<b>Selected NPU</b>								
<input checked="" type="checkbox"/> <b>1500 NPU = 2300 CMH</b> <input type="checkbox"/> 1600 NPU = 1600 CMH <input type="checkbox"/> 2000 NPU = 2000 CMH <input type="checkbox"/> 4000 NPU = 4000 CMH <input type="checkbox"/> 5000 NPU = 5000 CMH	Total number of NPU(s) required							
	<b>1</b>							
Selected NPU = <b>1500 @ XXXX</b> CMH (actual performance from digital flow rate). Serial Number <b>XXXX</b>								
<b>Air changes achieved:</b>								
<b>XXXX</b> CMH divided by volume of enclosure @ <b>46.12m<sup>3</sup></b> = <b>XXXX</b> air changes per hour								

**Notes:**

\* A Three-Stage Airlock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
 A Three-Stage Bag lock with a volume of 6m<sup>3</sup> allows a maximum of 1500 CMH into an enclosure.  
 Therefore, depending on the enclosure set up additional airflow (CMH) may need to be allowed into the enclosure if the original airflow calculation (\*) exceeds 1500 CMH or 3000 CMH (depending on your set up) to achieve the necessary air changes per hour. Air chamber(s) will need to be introduced.

For example, an Air Chamber with a volume of 2m<sup>3</sup> allows a maximum of 4000 CMH into an enclosure. If you require an air chamber(s) then this must be accounted for when calculating the volume of the enclosure.

Pre-filters can also be placed within the enclosure wall. For guidance a 1500 pre-filter (with a weighted non-return flap) will allow between 100 and 200 CMH into an enclosure.

\*\* Each enclosure must have a minimum of 1000 CMH drawn through the airlock to achieve the required air changes.

You must achieve a minimum of 10 air changes per hour. (For external soffit removal you must achieve a minimum of 20 air changes per hour.

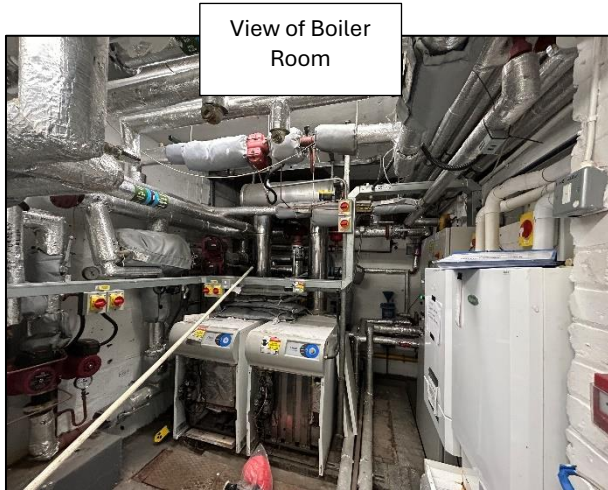
Lay flat hosing can only vent to atmosphere in a straight line.

Cloth hosing must only be used inside an enclosure.

Foil hosing must be used when venting to atmosphere (so outside the enclosure).

\*\*\* If you are using roving head(s) then the maximum length of ducting (per roving head) the roving head will be extended to, must also be accounted for when calculating the NPU reduction.

The enclosure will be constructed within the boiler room and corridor.



Any void areas present within the boiler room must be pre cleaned then sealed with expanding foam to create an air tight seal, the foam must be cut back neatly and flush once dried. Depending on the size of the penetration a mastic seal (smaller openings) or fire batt (larger openings) may be used.

A pod will be formed on the entrance to the boiler room using a 750mm x 750mm speed frame sheeted in 1000g polythene and sealed with cloth tape. This is where the airlock and NPU will be attached to the enclosure.



The electric distribution boards within the boiler room will be sheeted in 1000g polythene and sealed with cloth tape.

A vision panel will be installed within the pod wall, dirty and middle stages of the baglock.

CCTV will be installed within the enclosure.

## 4 Method of Removal

The Site Supervisor is to read the method of works and risk assessments together with appropriate toolbox talks and is to ensure that all Operatives sign the 'Acceptance of Method Statement Form' included within section 16 of these RAMS following their verbal confirmation that they fully understand the method of works and safe systems to be adopted throughout the project.

Prior to the commencement of any works the waste / transit route must be cleared of any trip hazards.

On completion of a satisfactory smoke test the Operatives can now don appropriate PPE and RPE and enter the enclosure.

### Removal of boilers, pipework using wrap and cut methodology

The boiler casing will be removed, the boilers will then be unbolted and broke down. Each section of the boiler once removed will be wrapped in 1000g polythene and removed from the enclosure for disposal.

The cylinder will be cut into smaller sections using a reciprocating saw to enable the safe removal from the enclosure, once cut down the sections of the cylinder will be wrapped in 1000g polythene and sealed with cloth tape and removed from the enclosure for disposal.

The MMMF insulation will be suppressed using a water and surfactant mix via an airless sprayer, the MMMF insulation where the cut points are required to the pipework will be removed using a Stanley knife and placed directly into red asbestos waste sacks.

The now exposed pipe section will be cleaned with hand held wire brushes, scouring pads and metal doughnuts soaked in surfactant to remove any surface residues left behind prior to being cut at the pre-marked points and removed.

Once cleaned, the ends of the newly exposed pipe insulation on the sections to be removed will then be taped and sealed and the pipework wrapped in 1000g polythene.

Drop sheets of flame-retardant polythene will be placed beneath the areas where removal is to commence

The 4" pipework weighs approximately 22kg per metre and will therefore be removed in circa 1m lengths. The Site Supervisor will make the decision on exactly where the cut points based upon the location of other services (if present).

The pipe work will then be cut using a reciprocating saw at the nominated cut points. The cutting process will be undertaken utilising a two-person team. One cutting the pipe and one holding the pipe.

The reciprocating saw has a vibration rating of 10.5m/s<sup>2</sup> meaning that Operatives can have a trigger time of 27 minutes before a rest period. A work rest regime will be in place when using the tool. Operatives will have 5 minutes on and 5 minutes off with a total trigger time not exceeding 1 hour 49 minutes per person per day.

All trigger times are to be recorded on a vibration exposure sheet within the site paperwork by the Site Supervisor.

<div style="display: flex; justify-content: space-between; align-items: center;"> <b>HAND-ARM VIBRATION EXPOSURE CALCULATOR</b> <span style="font-size: 0.8em;">Version 4.3 January 2014</span> </div>										
Tool or process name	Vibration magnitude m/s <sup>2</sup> r.m.s.	Exposure points per hour	Time to reach EAV 2.5 m/s <sup>2</sup> A (8)		Time to reach ELV 5 m/s <sup>2</sup> A (8)		Exposure duration		Partial exposure m/s <sup>2</sup> A (8)	Partial exposure points
			hours	minutes	hours	minutes	hours	minutes		
Makita Resip	10.5	221		27	1	49		27	2.5	99
Tool or process 2										
Tool or process 3										
Tool or process 4										
Tool or process 5										
Tool or process 6										

☒ Lock Tool or process names

**Instructions for use:**

Enter vibration magnitudes and exposure durations in the white areas

To calculate, press <Enter>, or move the cursor to a different cell

The results are displayed in the yellow areas

To clear all cells, click on the 'Reset' button

Tick the 'Lock tool or process name' check box to prevent 'Reset' clearing these cells

For more information, click the 'Help' button

Daily exposure m/s <sup>2</sup> A (8)	Total exposure points
2.5	99

**WARNING:** Exposure potentially above 2.5m/s<sup>2</sup>A(8) EAV (100 points)

Each section will be lowered to the ground, wrapped again in polythene and labelled as hazardous waste.

The hangers to the pipework are also to be removed, Operatives will suppress the area around the fixing point within the wall then remove the fixing with the required hand tools or reciprocating saw and place the hanger within an asbestos waste bag. Where hangers are fixed within the wall the hanger will be cut utilising a reciprocating saw.

During all of the work procedures the atmosphere and surfaces being stripped will be lightly sprayed with a fine water surfactant mist via an airless sprayer to suppress any potential fibre release.

Waste materials must be bagged immediately following their removal. Waste must not be allowed to accumulate unsealed within enclosures.

### Insulation residues to walls & ceilings/ needle gun removal

In preparation, all the exposed brickwork to the walls will be firstly scrapped back with the aid of 3" hand held scrapers to a sound surface with any asbestos residues, lumps and/or bumps removed as far as reasonably practicable from the surface of the walls before needle gunning.

Asbestos residues to the walls and ceilings shall now be removed with the use of low vibration needle guns.

Operatives shall wear anti vibration gloves and ear defenders. The needle gun compressor shall be positioned outside the enclosure near the airlock system. The bagging / hosing from the compressor shall be fed into a manifold system located inside the enclosure and from this manifold, further hosing will feed the needle guns.

A polythene drop sheet is to be placed below the working area to catch any falling dust / debris. The debris within the drop sheet is to be removed at regular intervals with the aid of an H type vacuum. At the end of each working shift the drop sheet is to be removed and disposed of as hazardous waste.


During all of the work procedures the atmosphere and surfaces being stripped will be lightly sprayed with a fine water surfactant mist to control any potential fibre release.

Waste materials must be bagged immediately following their removal.

This needle gun process will be repeated until all of the residues to the walls have been removed.

The needle gun has a vibration rating of 2.3m/s<sup>2</sup> meaning an Operatives can have a total trigger time of 9 hours 27 minutes per shift. However, a work rest regime will still be in place when using the tool. Operatives will have 45 minutes on and 15 minutes off with a total trigger time not exceeding 6 hours per day.

All trigger times are to be recorded on a vibration exposure sheet held within the site paperwork by the Site Supervisor.

 <b>HAND-ARM VIBRATION EXPOSURE CALCULATOR</b> <span style="float: right;">Version 4.3 January 2014</span>										
Tool or process name	Vibration magnitude m/s <sup>2</sup> r.m.s.	Exposure points per hour	Time to reach EAV 2.5 m/s <sup>2</sup> A (8)		Time to reach ELV 5 m/s <sup>2</sup> A (8)		Exposure duration		Partial exposure m/s <sup>2</sup> A (8)	Partial exposure points
			hours	minutes	hours	minutes	hours	minutes		
Tool or process 1	2.3	11	9	27	>24		6		2.0	64
Tool or process 2										
Tool or process 3										
Tool or process 4										
Tool or process 5										
Tool or process 6										

☒ Lock Tool or process names

Zoom to fit

Help

Reset

**Instructions for use:**

Enter vibration magnitudes and exposure durations in the white areas

To calculate, press <Enter>, or move the cursor to a different cell

The results are displayed in the yellow areas

To clear all cells, click on the 'Reset' button

Tick the 'Lock tool or process name' check box to prevent 'Reset' clearing these cells

For more information, click the 'Help' button

Daily exposure  
m/s<sup>2</sup> A (8)

2.0

Total exposure points

64

Exposure likely to be below  
2.5m/s<sup>2</sup>A(8) EAV (100 points)

### Fine clean

Following the removal, the enclosure will be subjected to fine cleaning using H type vacuum cleaning equipment and tak rags to remove any remaining surface dust and debris. Operatives will commence at the top of the enclosure and work down to the floor area, ensuring all ledges and hard to reach areas are cleaned.

The floor will be the final area to be vacuumed through.



Following the dry clean all surfaces will then be lightly washed down with a fibre suppressant via a hand-held airless sprayer. Operatives will commence at the top of the enclosure and work down to the floor area, ensuring all ledges and hard to reach areas are cleaned.

The floor will be the final area to be lightly washed through, with excess water being removed with rags. All rags will be disposed of as hazardous waste.

Waste materials must be bagged immediately following their removal. Waste will not be allowed to accumulate unsealed inside enclosures.

All waste shall be double bagged / wrapped in the middle stage of the airlock and transported to the sealed waste compartment in the company vehicle.

**The airlock** must be of a sufficient size to accommodate the safe removal of the asbestos containing waste from the enclosure.

### **Pre visual inspection**

Following asbestos removal, the enclosure, immediate area outside the enclosure and waste and transit routes will be assessed by the Site Supervisor to determine whether all areas are clean and ready for the visual inspection to be undertaken by the independent approved analyst.

On completion the Site Supervisor once satisfied will complete the Pre-Visual Inspection Form, (QMF 0161) and issue this form to the independent analyst and then assist the analyst with the 4-stage clearance procedure.

### **4 Stage clearance procedure**

The 4-stage clearance procedure to be undertaken in accordance with our **SOP's**, please refer to section 20, page 171.



## 5 Transit and Waste Routes

### Transit route

The transit route will be via the airlock to the modular DCU. Distance is 15m.

Please refer to the site diagram for location of DCU.

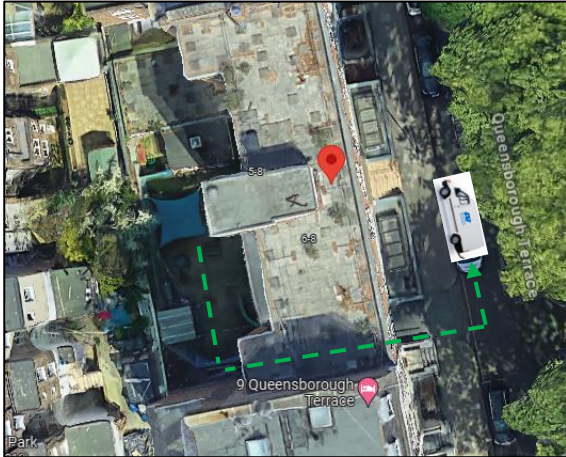
Transit procedures will be undertaken in accordance with our **SOP's** please refer to section 17, page 95.

### Waste route

The waste route will be via the airlock, out the building and external paths to the sealed waste compartment in the company vehicle. Distance is 40m.

Please refer to the site diagram for details of waste route and location of company vehicle.

Waste removal will be undertaken in accordance with our **SOP's**, please refer to section 19, page 162.





























### Waste details:

Sealed waste container on site	<input checked="" type="checkbox"/> <b>If ticked, please complete below</b> <input type="checkbox"/> 35 yd <sup>3</sup> <input type="checkbox"/> 16 yd <sup>3</sup>
Wait and load	<input type="checkbox"/> <b>If ticked, please complete below</b> <input type="checkbox"/> 35 yd <sup>3</sup> <input type="checkbox"/> 16 yd <sup>3</sup>
External waste collections	<input type="checkbox"/>
Woods licensed vehicle	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/> <b>Insert details here</b>

Waste carriers:	Final destination:
<b>AA Woods</b> <b>Woods House</b> River Way Harlow Essex CM20 2DP	<b>Pinden Quarry</b> <b>c/o AWS</b> Longfield Dartford DA2 8EB

## 6 Site Plan

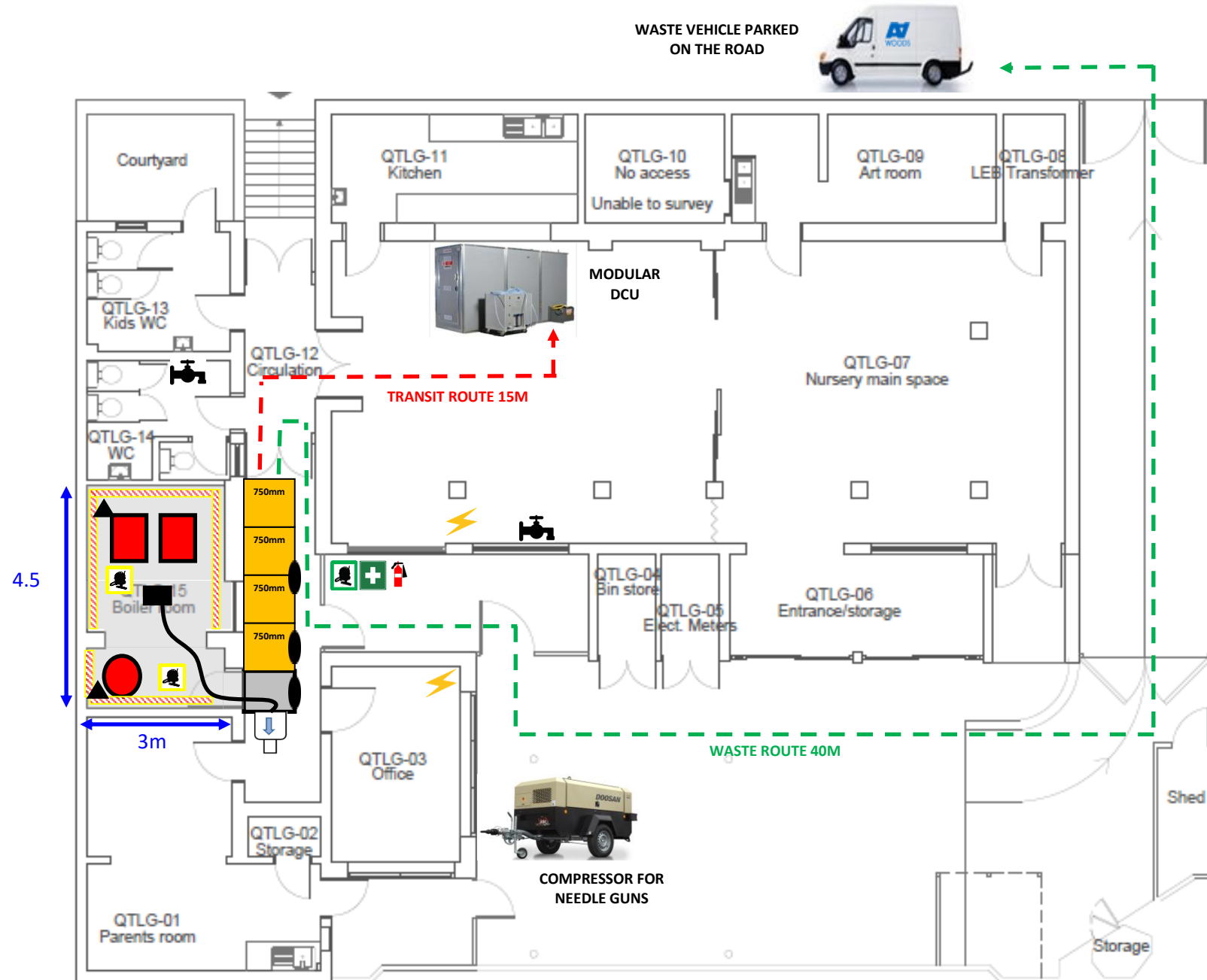
### Drawing legend

	Airlock		DCU
	Bag lock		Waste container
	Air chamber		Woods licenced vehicle
	Modular unit		Transit route
	Enclosure		Waste route
	ACM		h-type vacuum cleaner Inside the enclosure
	Alternative ACM key that can be used (pipes etc.)		H-type vacuum cleaner outside the enclosure
	Vision Panel		Water source
	CCTV		Electricity source
	NPU		Fire extinguisher
	NPU outlet		First aid equipment
	Roving head		Emergency assembly point
	Heras fencing or any form of exclusion zone		Scaffold

**Asbestos Regulation 7 requires the site drawing within the PoW to contain all of the following:**

Minimum drawing content (if applicable to the project)
Location of the enclosure(s) or work area(s)
Rooms or areas adjacent to the enclosure or work areas
Location of viewing panels and / or CCTV
Location of NPU(s)
Location of Airlock(s)
Location of Bag lock(s)
Location of H type vacuum cleaners
Location of DCU
Location of skip (and / or holding area and / or waste vehicle)
Transit route, including length
Waste route, including length
In addition it is company policy to also include the following additional information (if applicable to the project), listed within Regulation 7 as 'recommended' content
Water supply
Power supply
NPU venting route
Emergency assembly point
Air Chamber
<b>Asbestos Regulation 7 plans of work – purpose and core principles</b>
<b>Appendix 4: Site diagram or drawing extract</b>
The diagram should be helpful to site teams in setting up the job in the way the plan writer wants. Drawings do not legally have to be to scale but it should be clearly shown what the main dimensions on and around the work site are.
A single diagram may not be enough to show everything which needs to be communicated to the site team, especially for large sites and/or longer or complex jobs. It may be more user friendly to have an overview diagram showing the main elements plus further detail drawings breaking the job down into manageable portions, be that by enclosure, by area, or by project phase, for example. This is another area of the PoW where photographs can add value.

# 5 QUEENSBOROUGH TERRACE



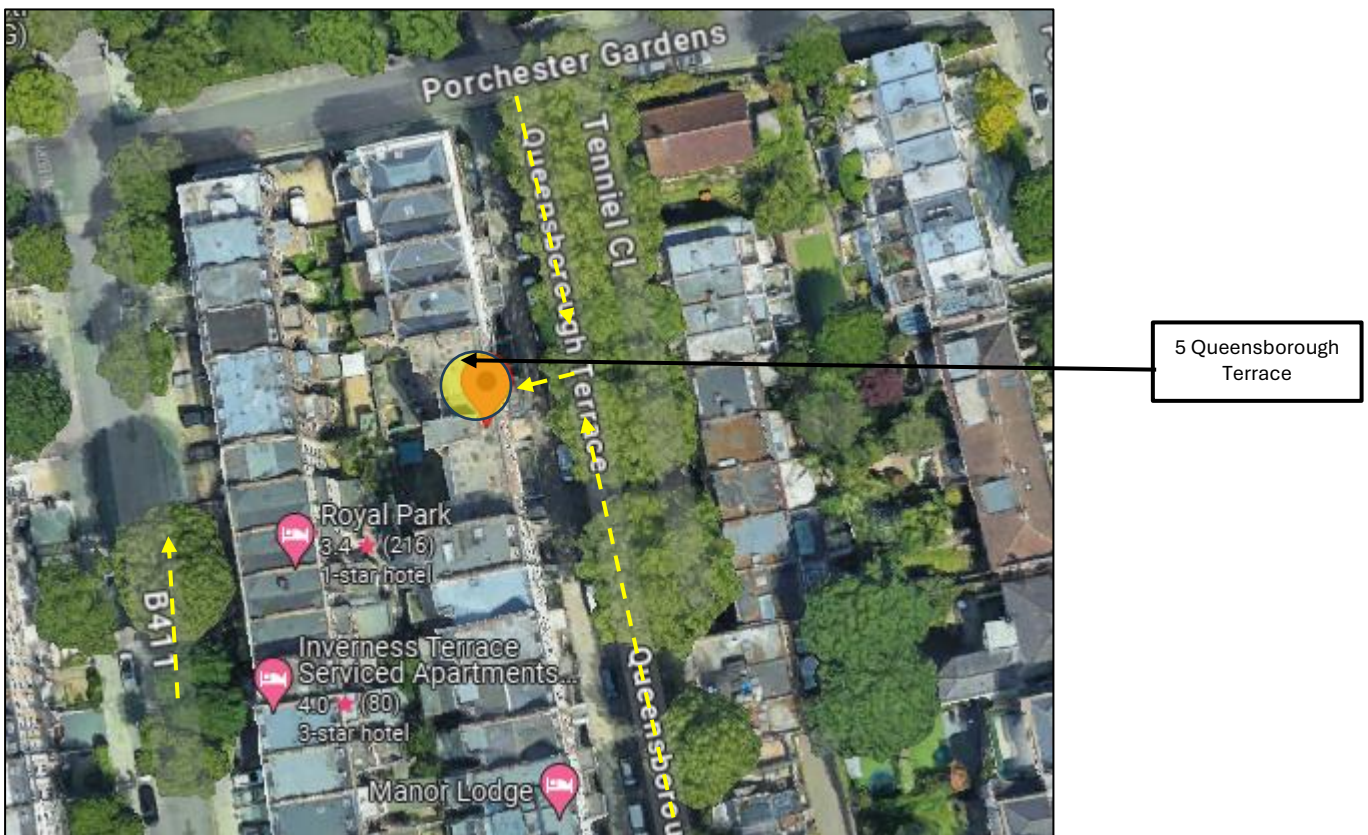
## 7 Site Information

### Site rules

- Report ALL Accidents
- Never block fire exits with materials
- No smoking within the site boundary
- Discrimination on the grounds of sex, colour, race, religion, age or sexuality will not be tolerated
- Always keep the work area clean and tidy
- No portable radios / stereos are to be used on site
- Site dress code - All site staff are to wear clear and visible identification as supplied at all times whilst on site
- Personal Protective Equipment is to be worn as directed by the Company Health & Safety Policy
- All Operatives are to work in accordance with the site-specific RAMS, Standard Operating Procedures and Company Health & Safety Policy
- Your site 'first aider' is your Site Supervisor and the first aid kit is located within the DCU.

### Vehicle access

Access to the site is via the side entrance to 5 Queensborough Terrace, please refer to the map below.

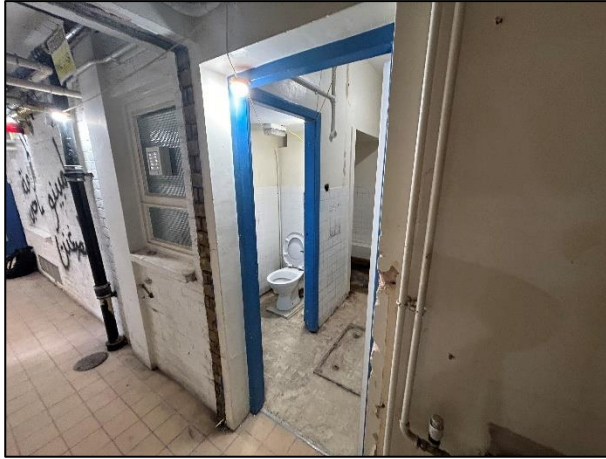


### Site deliveries

Site deliveries must be co-ordinated and agreed with the Site Supervisor.

## Welfare facilities

- **Toilet facilities:** Located onsite



- **Hot and cold running water:** Located onsite



- **Rest area:** Located onsite

For further information regarding welfare, please refer to our **SOP's**, section 5, page 20.



## 8 Asbestos Materials Risk Assessment

<b>Asbestos type / Analysis details</b>	Amosite and Chrysotile thermal insulation
<b>Quantity of asbestos being removed</b>	Total pipework to be removed (wrap and cut) = 70 linear metres. Walls & ceiling to needle gun = approximately 58.5m <sup>2</sup>
<b>Current condition of ACM's</b>	Poor debris to the floor have been identified
<b>Type of fixing</b>	Residues
<b>High risk working methods</b>	Working at height cannot be eliminated. Access for work at height will be via hop ups and step ladders HAVS

<b>Asbestos survey information</b>	Yes	No	<b>Note: If a survey has been undertaken, a copy of this survey MUST be available on site.</b>	
<b>Has an asbestos survey been undertaken?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>If yes what type of survey has been carried out?</b>	Management <input checked="" type="checkbox"/>	Refurbishment and demolition <input type="checkbox"/>	Other <input type="checkbox"/>	Please state:
<b>Date of when survey was undertaken:</b>	10/04/2024			
<b>By whom was the survey undertaken:</b>	Life Environmental			

<b>Anticipated Airborne fibre level.</b> (During activity after control measures)	Based on recent results from previous personal monitoring on projects similar in nature, we anticipate fibre levels (during activity after control measures) to be:  <b>&lt;0.02 f/ml.</b>
--	--



ENV Surveys Ltd. Formula House, 12 Upper Hollingdean Road, Brighton, East Sussex, BN1 7GA  
tel: (01273) 506098 e-mail: info@envsurveys.com  
Registered Office: 338 London Road, Portsmouth, PO2 3JY. Registered in England no. 4490449



### AIR MONITORING REPORT

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Report Number:</td> <td>AT0623/04/05</td> </tr> <tr> <td>Date:</td> <td>21/06/2023</td> </tr> <tr> <td>Client :</td> <td>ICHNHST – Shane King Estates Department Charing Cross Hospital Fulham Palace Road London W6 8RF</td> </tr> <tr> <td>Asbestos Removal Contractor:</td> <td>AA Woods Ltd</td> </tr> <tr> <td>Site Address:</td> <td>Hamm House Hammersmith Hospital Du Cane Road London W12 0HS</td> </tr> <tr> <td>Time on site:</td> <td>0900-1400</td> </tr> <tr> <td>Analyst Name and report authorised by:</td> <td>Mike Mackay</td> </tr> <tr> <td>Analysts Signature:</td> <td></td> </tr> </table>	Report Number:	AT0623/04/05	Date:	21/06/2023	Client :	ICHNHST – Shane King Estates Department Charing Cross Hospital Fulham Palace Road London W6 8RF	Asbestos Removal Contractor:	AA Woods Ltd	Site Address:	Hamm House Hammersmith Hospital Du Cane Road London W12 0HS	Time on site:	0900-1400	Analyst Name and report authorised by:	Mike Mackay	Analysts Signature:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;"> <b>Description of Works &amp; Location / Daily Log:</b>  <div style="background-color: yellow; padding: 5px;">Cutting And Wrapping Of Pipes From Within Undercroft Enclosure 2</div> </td> </tr> </table>	<b>Description of Works &amp; Location / Daily Log:</b> <div style="background-color: yellow; padding: 5px;">Cutting And Wrapping Of Pipes From Within Undercroft Enclosure 2</div>
Report Number:	AT0623/04/05																	
Date:	21/06/2023																	
Client :	ICHNHST – Shane King Estates Department Charing Cross Hospital Fulham Palace Road London W6 8RF																	
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Key: f/ml – fibre per millilitre of air / l – litre / mm – millimetre / NPU – negative pressure unit /  $\mu$ m – micron / mins – minutes  
Key for test types: C – Clearance / L – Leak test / B – Background test / R – Reassurance test / P – Personal monitoring

## 9 Air Monitoring Strategy

### Air monitoring strategy

#### 4-stage clearance

Are 4-stage clearance(s) required on this project? Yes ☒ No ☐

**If yes, please complete the table below**

Enclosure details (location)	Date to be carried out	By whom
Boiler Room	Thursday 25 <sup>th</sup> July 2024	Airtech Analysis Ltd

#### Reassurance monitoring

Is Reassurance monitoring required on this project? Yes ☐ No ☒

**If yes, please complete the table below**

Location	Date to be carried out	By whom

#### Background monitoring

Is Background monitoring required on this project? Yes ☐ No ☒

**If yes, please complete the table below**

Location	Date to be carried out	By whom

#### Leak testing

Is Leak testing required on this project? Yes ☐ No ☒

**If yes, please complete the table below**

Location	Date to be carried out	By whom



**Personal monitoring**

Yes

No

Is Personal monitoring required on this project?

**If yes, please complete the table below**

Name of individual	Date to be carried out	Task	ACM	Type of fixing
Steve Smith	Thursday 18 <sup>th</sup> July 2024	Removal	Pipe Insulation (Residue)	Residue

**For Task, ACM and Type of fixing, please select from the following:**

Task	ACM	Type of fixing
Enclosure Construction	AIB	Screwed
Encapsulation	Pipe insulation (sectional)	Nailed
Removal	Pipe insulation (hand applied)	Sectional
Outside man	Pipe insulation (MMMF)	Coating
Drilling	Pipe insulation (paper lining)	Residue
Fine Clean	Sprayed insulation	Debris
Waste Run	Cement products	Glue
	Floor tiles	Plasterboard (T/c)
	Textured coating (T/c)	Concrete (T/c)
	Gasket	

**All personal monitoring MUST be conducted over a 4-hour time period wherever practicable.**

## 10 Risk Assessment (Job specific)

### Risk assessments

#### Job specific

Management of these selected job specific risks must be delivered in full accordance with the mitigation / control measures detailed overleaf.

No.	Risk	Please tick which of the following job specific risks are applicable to this project
A	Working at height (fixed scaffold)	<input type="checkbox"/>
B	Use of shot blasting equipment	<input type="checkbox"/>
C	Live water services	<input checked="" type="checkbox"/>
D	Live gas services	<input type="checkbox"/>
E	Live electrical services	<input type="checkbox"/>
F	Manual handling (push / pull DCU into position)	<input checked="" type="checkbox"/>
G	Manual handling NPU's into position	<input checked="" type="checkbox"/>
H	Manual handling Red box into position	<input checked="" type="checkbox"/>
I	Manual handling 'heavy' waste from enclosure	<input checked="" type="checkbox"/>
J	Heat stress in the workplace	<input type="checkbox"/>
K	Redundant / isolated services	<input checked="" type="checkbox"/>
L	Other (Please state)	<input checked="" type="checkbox"/> Manual handling wrapped pipework from the enclosure
M	Other (Please state)	<input checked="" type="checkbox"/> Manual handling electrical equipment from the enclosure
N	Other (Please state)	<input type="checkbox"/>
O	Other (Please state)	<input type="checkbox"/>
P	Other (Please state)	<input type="checkbox"/>
Q	Other (Please state)	<input type="checkbox"/>
R	Other (Please state)	<input type="checkbox"/>
S	Other (Please state)	<input type="checkbox"/>
T	Other (Please state)	<input type="checkbox"/>
U	Other (Please state)	<input type="checkbox"/>
V	Other (Please state)	<input type="checkbox"/>
W	Other (Please state)	<input type="checkbox"/>
X	Other (Please state)	<input type="checkbox"/>

**Likelihood** – Probable frequency (taking into account whatever precautions are currently being undertaken)

Improbable occurrence	
Remote occurrence	
Possible occurrence	
Probable occurrence	
Likely occurrence	

**Severity** of the hazard

Nil – Trivial injuries	
Low – Minor injuries	
Medium – Major Injuries in one person	
Major – Major injuries to several people	
High - Death	

Risk – the expression of the risk is then the sum of multiplying likelihood by Severity as in the grid below

		Likelihood				
Severity		5	4	3	2	1
	5	High	High	High	Medium	Low
	4	High	High	Medium	Medium	Low
	3	High	Medium	Medium	Low	Low
	2	Medium	Medium	Low	Low	Low
	1	Low	Low	Low	Low	Low

Residual Risk Level	Action and timescale
LOW (1-6)	No Action is required and no documentary records need to be kept. Monitoring is required to ensure that the controls remain effective.
MEDIUM (8-12)	Efforts must be made to reduce the risk but the cost of prevention should be carefully measured. Risk reduction measures should be implemented within a defined time period. Where the medium risk is associated with extremely harmful consequences, further assessment may be necessary to establish more precisely the likelihood of harm as a basis for determining the need for improved control measures.
HIGH (15-25)	Work should not be started until the risk has been reduced. Considerable resources may have to be allocated to reduce the risk. Where the risk involves work in progress urgent action should be taken. <b>If it is not possible to reduce the risk even with unlimited resources work has to remain prohibited.</b>

## Job specific risks

Hazard Delete as applicable	Ref. No.	Risk	S	L	R	Mitigation	S	L	R	Owner
Live water services	C	Water Leaks	4	3	12	<p><b>The hard-set insulation to be removed using the wrap and cut method has been isolated however an element of other pipework within the boiler room is live, this live pipework does not contain hard-set insulation and cannot be isolated.</b></p> <ol style="list-style-type: none"> <li>This live pipework is domestic hot water running at 65C and at 2 bar pressure.</li> <li>This pipework is clearly marked with red and white tape</li> <li>This pipework is insulated with foil faced MMMF insulation and is in good condition and must be carefully wiped down during the fine clean, no removal works are required to this pipework.</li> <li>DO NOT CUT any pipes. There is a no cut policy on this job.</li> <li>Full spillage kit to be on-site.</li> </ol>	4	1	4	Supervisor
Manual handling (push / pull DCU into position)	F	Strains and sprains, Musculoskeletal disorders, hernias	3	3	9	<ol style="list-style-type: none"> <li>The DCU will need to be pushed and pulled into position within the rear car park of Highfield Court. Distance to be pushed and pulled is no more than 3 meters.</li> <li>The car park is flat and the surface is good.</li> <li>The DCU must be placed as close as possible to the final designation whilst hitched to the vehicle.</li> <li>Obstacles in the road must be removed before moving the DCU for clear passage to final destination</li> <li>Site Supervisor to be at the front of the DCU by the jockey wheel to guide the DCU, additional operative(s) are to be on the rear corner(s) of the DCU to push to final designation</li> <li>Clear communication from the Site Supervisor to at least one operative at all times</li> <li>DCU must only be pushed / pulled at a maximum of walking pace, the Site Supervisor will use the hand brake on the DCU to control the speed</li> <li>Handbrake must be applied anytime the DCU comes to a halt.</li> </ol>	3	1	3	Supervisor
Manual handling NPU's into position	G	Strains and sprains, Musculoskeletal disorders, hernias.	3	3	9	<ol style="list-style-type: none"> <li>The NPU's weigh 82kg.</li> <li>The NPU's have side handles and will be lifted by 2 persons from the vehicle to road level.</li> <li>Floor surface and route to be inspected for trip and slip hazards prior to unloading and reloading the NPU.</li> <li>The route is on a path and grass which is flat, the surface is fair and is all on one level from the path to the enclosure. There are no steps to contend with. Distance from vehicle to enclosure is 15m.</li> <li>When lifting Operatives must ensure correct lifting postures are used e.g straight back and knees bent with both persons lifting together.</li> <li>Gloves must be worn when lifting.</li> </ol>	3	1	3	Supervisor Operatives
Services that have not been isolated	K	Water Leaks Major injury	5	4	20	<ol style="list-style-type: none"> <li>Company responsible for isolation must provide confirmation that the isolation has taken place.</li> <li>A copy of this confirmation MUST be on site with the Site Supervisor prior to starting work. If not in place the work cannot start.</li> </ol>	5	1	5	Contracts Manager Supervisor

5 QUEENSBOROUGH TERRACE

Hazard Delete as applicable	Ref. No.	Risk	S	L	R	Mitigation	S	L	R	Owner
Manual handling wrapped pipework & boiler sections from the enclosure	L	Strains and sprains, Musculoskeletal disorders, hernias.	3	3	9	1. The 4” pipework weighs approximately 22kg per metre. The pipework will therefore be cut into 1m sections. 2. The wrapped pipework must be removed using 2 persons at all times. 3. The boiler sections will be dismantled into small, manageable sections. 4. Waste to be transported from the enclosure using a trolley. Distance to the waste vehicle is 40m	3	1	3	Supervisor

## 11 Standard Risk Assessment

### Risk assessments

#### Standard risks

Management of these selected risks whereby the mitigation / control measures are standard must be delivered in full accordance with our SOP's, please refer to section 9, page 41.

No.	Risk	Please tick which of the following Standard risks are applicable to this project
1	Asbestos	<input checked="" type="checkbox"/>
2 - 7	Working at height	<input checked="" type="checkbox"/> <b>If ticked, please complete below</b> <input type="checkbox"/> Tower scaffold <input type="checkbox"/> MEWP <input type="checkbox"/> Hop-Up <input type="checkbox"/> Ladder <input checked="" type="checkbox"/> Stepladder <input checked="" type="checkbox"/> Podium steps
8	DCU	<input checked="" type="checkbox"/>
9	Third party interface	<input type="checkbox"/>
10	Fire at the workplace	<input checked="" type="checkbox"/>
11	Slips, trips and falls	<input checked="" type="checkbox"/>
12	Manual handling (Standard)	<input checked="" type="checkbox"/>
13	Operating plant and equipment	<input checked="" type="checkbox"/>
14	Noise at work	<input type="checkbox"/>
15	Set up and use of petrol / diesel generator	<input type="checkbox"/>
16	Site vehicle movements / deliveries	<input checked="" type="checkbox"/>
17	Falls from vehicles	<input checked="" type="checkbox"/>
18	Falling debris / objects when removing ceilings	<input type="checkbox"/>
19	Waste materials	<input checked="" type="checkbox"/>
20	Poor lighting	<input checked="" type="checkbox"/>
21	Using and changing tools with blades (i.e. stanley knife, scrapper blades)	<input checked="" type="checkbox"/>
22	Scissors	<input checked="" type="checkbox"/>
23	Hand Arm Vibration (HAV's)	<input checked="" type="checkbox"/>
24	Third party interface (domestic property)	<input type="checkbox"/>
25	Vulnerable person (domestic property)	<input type="checkbox"/>
26	Aggressive behaviour (domestic property)	<input type="checkbox"/>
27	Pets (domestic property)	<input type="checkbox"/>
28	Drug paraphernalia	<input type="checkbox"/>
29	Pigeon guano	<input type="checkbox"/>
30	Weil's disease	<input type="checkbox"/>
31	COSHH	<input checked="" type="checkbox"/>

## 12 Isolations

### Isolations

For all services (Gas, Water, Electrical) isolations must be considered during the planning stage of the works with the relevant isolations undertaken by competent personnel. Certification of the isolations to be provided to the Site Supervisor or persons managing the project.

Service	Present Y / N	Isolated by
Water	Y	The pipework will be isolated by GEM prior to the works being undertaken
Gas, medical gas and oxygen	N	Not applicable.
Electricity	Y	Isolated by GEM prior to the works being undertaken
Boilers	Y	Isolated by GEM prior to the works being undertaken
Other isolation requirements	N / A	There are no other services within the boiler room

### Notes

A load list for all projects whereby live water services are present will include a standard spillage / repair kit made up of the following items.

This kit will enable the pipe work to be temporarily repaired and any subsequent excess water created from the damaged pipe removed.

- Pipe clamps (various sizes)
- Denzo tape
- Eli-wrap pipe repair bandage
- Eco – sustainable absorbent compound / granules
- Wet-vac
- Sump pump
- Wheelie bin
- H- type vacuum
- Tak rags
- 500g asbestos sacks

## 13 Access Equipment

Equipment type	Required
Hop-Ups	<input checked="" type="checkbox"/>
Ladder	<input type="checkbox"/>
Step Ladder	<input checked="" type="checkbox"/>
Podium Steps	<input type="checkbox"/>
Mobile Tower	<input type="checkbox"/>
Scaffold	<input type="checkbox"/>
Other access equipment (please give further details)	<input type="checkbox"/>



### Hop-Up

Lockable steel hinges and anti-slip feet, suitable for low level access.  
Non slip platform feet and rungs.

#### Measurements:

Closed: L x W x H: 600mm x 700mm x 200mm.

Working: L x W x H: 930mm x 700 x 500mm.

#### Maximum safe working load:

150kg

#### Weight:

5.2kg



### Step Ladder

A step ladder can be used for short duration work. The ladder should have good non slip foot threads. The 3 points of contact rule must be adhered to at all times

#### Platform height:

1.5-2.5m.

Operatives are not permitted to stand on the top tread.

Must be inspected pre-use.

Never use on an open scaffold or platform. Only use if other options are not viable.



**14 PPE / RPE****Types of PPE and RPE to be used:**

PPE and RPE to be used in accordance with our **SOP's**, please refer to section 10, page 50.

**Further PPE and RPE:**

Hard hat	<input type="checkbox"/>
Glasses	<input type="checkbox"/>
Hearing protection	<input type="checkbox"/>
Dust mask	<input type="checkbox"/>
Gloves (anti vibration)	<input checked="" type="checkbox"/>
Gloves (cut resistant)	<input checked="" type="checkbox"/>
Gloves (heat and water resistant)	<input type="checkbox"/>
Gloves (electricians insulating latex gloves)	<input type="checkbox"/>

**Other PPE:**

No further RPE required.

## 15 Emergency Information

### Nearest A&E hospital:

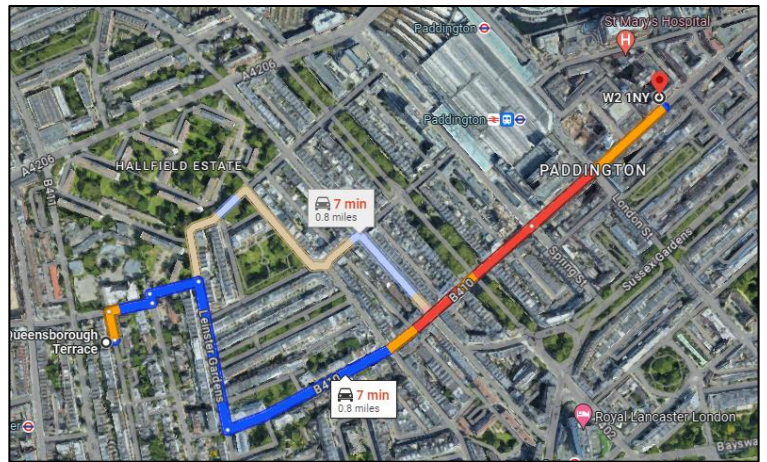
#### St Marys Hospital

Praed Street  
London  
W2 1NY

T: 01438 314333

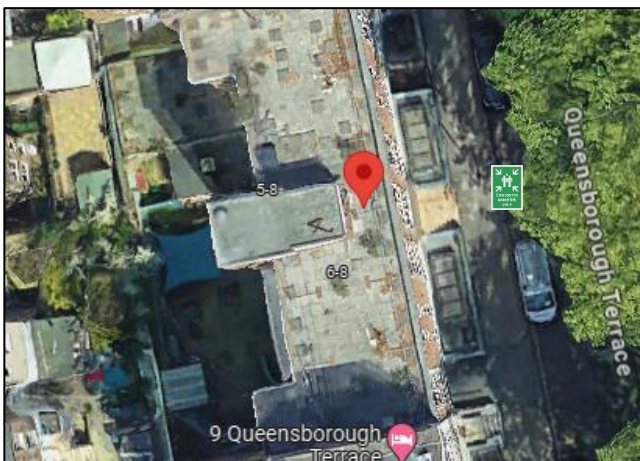
Distance: 0.8 miles away

### A&E directions:



### Emergency assembly point:

The emergency assembly point will be located adjacent the van parked outside the front of the building



### Firefighting equipment:

Fire extinguisher (powder)



**First aid personnel:**

Site Supervisor: Tony Willing

**First aid equipment:**

First aid Kit

Eye wash

Each project will have allocated a suitable first aid kit of the appropriate size for the number of Operative engaged with the project. The Site Supervisor will be suitably trained to deal with minor injuries should they occur.



Emergency contacts	Contact name	Telephone number	Alternative number
Site Supervisor	Tony Willing	07908 304 377	Not applicable
Contracts Director	Luke Mulvey	07712 139 707	01279 444 630
Health & Safety Manager	Gary Bambury	07387 108 690	01279 444 630

**Incident hot line 07880 192 937**

**General emergency procedures**

For all standard emergency procedures, please refer to our **SOP's**, section 4, page 14.

## 16 Acceptance of the Method Statement

All personnel working on this project **MUST** sign below to say that they have fully read and understood all of the items included in this method statement and the associated Risk / COSHH Assessments. By signing, each Operative confirms that he / she will work to it correctly as instructed.

[illegible]

17 Amendments

Amendments

Major amendments completed by:

Luke Mulvey

Minor amendments completed by:

Tony Willing

Amendments to this Plan of Work will be communicated to all site personnel by way of a toolbox talk, which will be recorded within the site paperwork.

Amendment	Date	Initials

**18 COSHH data sheets required**

These are located on EasyBOP under the Docs section, Collateral sub heading. Collateral list 'Woods Site Document' COSHH Assessments. Select the orange view button.

Details	Pages	Required	Details	Pages	Required
Pine Disinfectant	4-6	<input checked="" type="checkbox"/>	Bleach	7-9	<input type="checkbox"/>
Washing Up Liquid	10-11	<input type="checkbox"/>	Colt 4/Smoke Fluid A	12-14	<input checked="" type="checkbox"/>
Masonry Wash	15-16	<input type="checkbox"/>	X-TEX Textured Coatings Remover	17-19	<input type="checkbox"/>
PU-Foam Cleaner	20-22	<input type="checkbox"/>	ET-150 / ET-10	23-25	<input type="checkbox"/>
PU foam filler (expanding foam)	26-28	<input checked="" type="checkbox"/>	Firecrl FR	29-30	<input type="checkbox"/>
Wetting Agent (Aquagrip, Astrip)	31-32	<input checked="" type="checkbox"/>	Non-hazardous tape, foil & polythene	33-34	<input checked="" type="checkbox"/>
Wood dust (sawdust)	35-36	<input checked="" type="checkbox"/>	Silica and general workplace dust	37-38	<input checked="" type="checkbox"/>
Machine Made Mineral Fibre (MMMF)	39-40	<input type="checkbox"/>	Cutting, grinding etc.	41-43	<input checked="" type="checkbox"/>
Storage of substances	44-45	<input type="checkbox"/>	Silicone	46-48	<input type="checkbox"/>
LPG for DCU	49-50	<input checked="" type="checkbox"/>	Diesel	51-53	<input type="checkbox"/>
Spray Adhesive	54-56	<input checked="" type="checkbox"/>	Clingfoam	57-58	<input type="checkbox"/>