

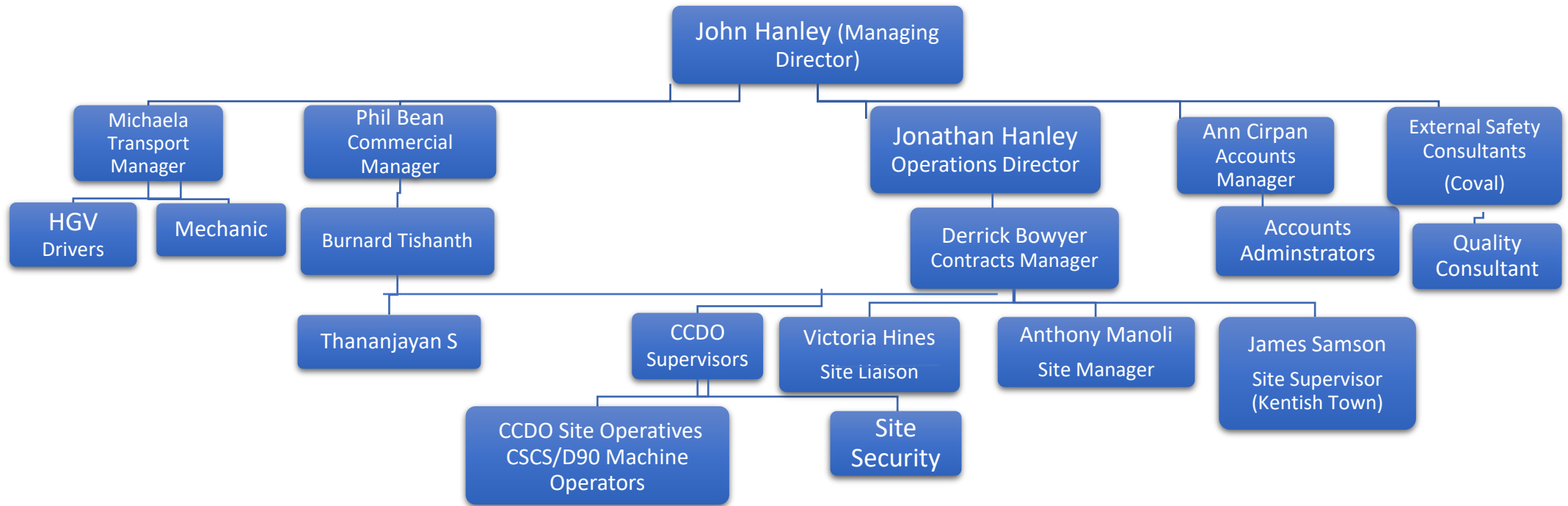
4014 – Demolition and Site Clearance

**Urban Logistics Tottenham
Willoughby Road
London
N17 0RU**



General Information			
Project Name	Urban Logistics Tottenham	Project Number	4014
Project Address	Willoughby Road, Tottenham N17 ORU	MS Prepared by	Thananjayan
Principal-Contractor	Greater London Demolition	Main Contractor	Greenfisher Contracting
Activity	Demolition and Site Clearance	MS reviewed by	JPH
Start on site date	May 2023	Duration of works	6 weeks
Risk Assessment(s) Title	Demolition and site clearance	Method statement and Risk Assessment(s) Ref & Revision	00
Site Working Hours	Mon – Fri: 08:00-18:00 hrs, Saturday:08:00-13:00, no Sunday or bank holidays		
1. Scope of works.			
The main scope of works for this project is demolition and site clearance. The sequence of demolition work will be as follows, a. Obtain all necessary licenses and permissions from London Borough of Haringey (Section 81) b. Obtain disconnection certificates and drawings from Greenfisher Contracting showing where the services have been disconnected outside of the site boundary (Gas, Electricity etc) c. Installation of timber hoarding on blocks along the Dysons Road frontage (ref: 4014/Hoarding/00) d. Erect Scaffolding to Building 1 (ref: 4014/Scaffold/01) e. Undertake asbestos removal inside buildings to be demolished followed by soft strip of materials f. Removal of roof structure working into the building g. Mechanical deconstruction of the buildings down to top of the ground floor slab. h. Movement of demolition arisings (concrete/hardcore, bricks, blocks) to be stockpiled for processing i. Site clearance of rubbish and remaining material leaving a level			
2. Supervisory arrangements including full contact details.			
• GLD will have a Site Manger on site for the duration of the works. • All Personnel will be inducted on GLD site rules and procedures. • GLD Operatives will be adequately trained & qualified for the task specific, and all certificates will be kept in the site file.			
Name and Designation	Qualifications		
Anthony Manoli (Site Manager) anthony.manoli@greaterlondongroup.co.uk 07904 344 054	SMSTS, Asbestos Awareness & Non-licensed Asbestos Removal, Demolition Safety Awareness, CSCS Green card, work at height and use of PPE.		

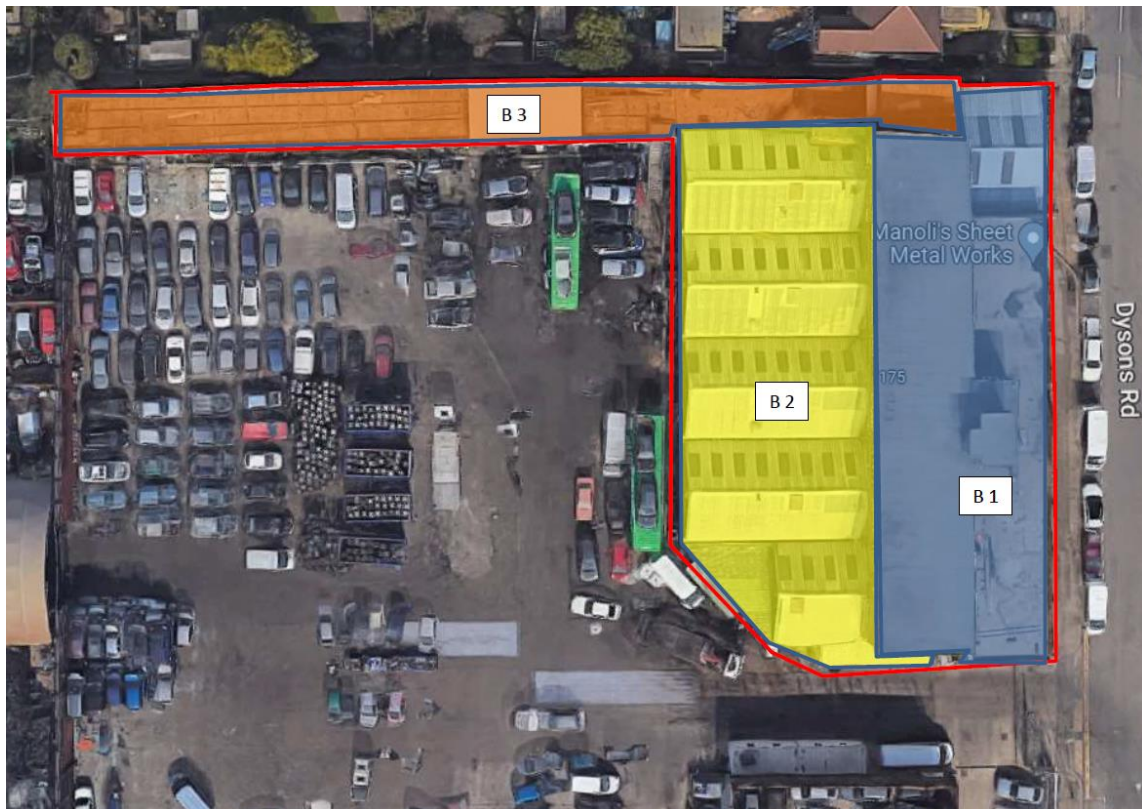
Organisation Chart 2023



Deputation Arrangements

Position	Deputy	Position	Deputy
Managing Director	Operations Manager	Accounts Manager	Accounts Administrator
Operations Director	Contract Manager	Transport Manager	Commercial Manager
Commercial Manager	Project Manager		

3. Competence of personnel involved in the work activity - (relevant) CSCS cards, NVQ or equivalent). Refer to risk assessment and ensure inclusion.
• Site Manager – Minimum qualifications SMSTS with Asbestos training. • Plant Operators – CPCS or NPORS • Labour – CSCS, Asbestos Awareness. • GLD First Aider on site will be Tom Cybula.
4. Detailed list of all resources, plant, and equipment to be used including required certification. Ensure consideration has been given to the associated risks and included in the risk assessment.
• 30-ton machine with grapple, bucket and breaker • 21-ton machine with grapple, bucket and breaker • Small Jet wash • Dust boss (dust suppression unit) • Small handheld tools • Wheelie bins / skips • Heras fencing panel • Scaffolding • Hoarding
5. Sequence and methodology for the works, and does this allow the implementation of the control measures defined in the Risk Assessment to protect workforce carrying out the activity and others who may be affected by the works?
Enabling works before commencing: • Obtain all necessary licenses and permissions. • Receive all services disconnection certificates from Client / Greenfisher Contracting. • Greenfisher will provide the welfare facilities to be located left of the main entrance gate • Client / Greenfisher to carry out isolation, protection, diversion, capping, and termination including certification of all existing services on site for all the buildings to be demolished. These services are to be terminated outside the site of the buildings being demolished Works to be carried out before commencing any demolition work. • Asbestos removal in line with the asbestos survey – fully removed and disposed before soft strip • Ensure that all live services to the buildings are terminated outside the footprint of the building. Methodology. The scope of work includes asbestos removal, soft strip, scaffold erection, Hoarding erection and demolition of structures down to top of the floor slab. Sequence of work for demolition: Mobilization => Erection of site hoarding => Scaffold erection=> Obtain services termination certificate from client=> Asbestos removal based on the survey=> Soft strip=> Demolition of building down to top of the floor slab



A. Installation of Hoarding.

As per the GLD hoarding plan drawing (ref: 4014/Hoarding/00), Specialist fencing contractor will install the hoarding along the Dysons Road. Before commencing the work we will provide the RAMS for hoarding installation.

B. Scaffold erection to Building 1

As per the GLD scaffolding markup drawing (ref: 4014/Scaffold plan/01), Specialist scaffolding contractor will install the scaffolding to building 1. Before commencing the work we will provide the RAMS.

C. Asbestos Removal

- Asbestos removal work will be undertaken by a specialist Asbestos contractor and they will provide their RAMS for approval before commencing any work.
- All operatives will wear type 5/6 coverall P3 half mask and wellington boots while undertaking asbestos removal work.
- All asbestos materials will be taken down one by one by fully trained asbestos operatives and placed into a hazardous waste skip provided and covered with 1000 gauge poly.
- Carry out this operation until all the asbestos containing materials have been removed and stacked into the hazardous waste skip
- GLD will provide the all hazardous waste consignment notes for the asbestos removal to a licensed facility at Pinden Quarry Dartford Kent.

D. Soft strip removal of materials

Once the rooms have been cleared of asbestos material and have been handed back as cleared of ACM's. The GLD soft strip team will undertake removal of fixtures and fittings back to the building

structure. Materials shall be segregated on the floors and transported to the ground floor using internal stair core. Once at ground level, the segregated material shall be placed into skips for removal from site to the licenced waste transfer station for recycling. Any voids or edges shall be suitably protected as the works progresses.

- Site Manager to install safety fencing to ensure safe access for operatives and maintain the exclusion zone during the lifting items and loading into bins. Site Manager to appoint operatives to erect necessary exclusion zones ensuring all are issued with correct PPE.
- Safety Boots to protect crushing of feet; Rigger gloves to prevent cuts, grazes, and high visibility vests to ensure visible to all others particularly vehicle drivers.
- Requires tools and other items: Hand tools, Wheelie bins, FFPT2 / KN95 masks, PPE – Gloves EN388(4343) Cut Level 3 or 5 as appropriate to item, light eye, Protection EN166f, Safety Boots steel toecap/mid sole, Hard Hats, Reflective Jackets/vests, hearing protection.
- When removing bulky furniture and loose items demolition operatives must ensure the transit routes are kept clear to ensure trips do not occur.
- These items will be dismantled/removed by hand and removed systematically from the structure to the designated waste area for loading into skips for removal from site.
- All items will be processed into suitable sizes to enable easy/safe manual handling and to fit into the designated wheelie bins and transported via the designated route.
- Operatives will strip out all doors, frames, windows, timber of any description, (not appertaining to roof or main structure) toilets, pipe work, ducting, electrical items, and any debris.
- Where possible the materials will be loaded by hand method into skips and removed from the site. Where access for skips is not available the materials will be segregated and stored within the building where they will be loaded using 360 excavator to larger 40-yard bins.
- At no time shall operatives gain access to unsafe buildings to recover soft stripped materials, these materials will be removed by mechanical means and when safe to do so by hand method
- All soft stripped materials will be processed and segregated into individual waste/recycling streams. All materials deemed suitable for recycling will be loaded into suitable skips and transferred from the site for recovery.

E. Mechanical Demolition

- Before commencing mechanical demolition. GLD ensure there is a clearly marked demolition zone.
- Mechanical demolition will be undertaken by 30 ton demolition excavator. The following attachments will be used during demolition work,
 - i. Hydraulic shears
 - ii. Hydraulic Grab
 - iii. Muncher
- The excavator shall begin the demolition by pulverizing the roof joint allowing the hard-core to fall either onto the floor within the drop zone below. This shall reveal the roof panels and internal walls. Dust suppression will be deployed to damp down dust throughout the demolition process. A Dust suppression cannon will aim at the pulveriser to dampen at source
- The excavator with muncher attachment will demolish the building from the roof down to top of the floor slab, taking care to segregate any waste for site cleaning purposes.
- All demolition arisings hardcore/concrete will be stockpiled on site for reuse
- Any metal or mixed material will be removed from site.

Noise, Dust, Vibration control during the demolition work.

Dust Emissions

- The main source of dust emissions will be during the main structural demolition work. All the necessary precautions will be taken during building demolition work.
- The works will be damped down with dust boss" cannon during the operations to minimise the production and spread of dust.
- All operatives will be required to wear masks to prevent any excessive dust being breathed in.
- Wind direction will be monitored to ensure the dust is contained when working.

Control of Noise

Greater London Demolition understands the need to protect people living and working in close proximity of the project against noise and vibration. We are complying with the recommendations set out in BS 5228:2009+A1:2014 Code of Practice for Noise and Vibration, Section 72 of the Control of Pollution Act.

Control of Vibration

Vibration affecting buildings shall not exceed levels that are likely to give rise to damage to the building or discomfort to the occupants of the buildings. We will not be using breakers to demolish the structure and there is enough screening between local stakeholders

GLD to utilise well maintained plant and equipment that are always shut off when not in use to significantly reduce vibration levels. Most of the structural above ground demolition will be done using muncher or shears attachments on the 360° excavators. This methodology produces virtually no vibration.

6. Associated COSHH, Noise, Manual Handling, Vibration Assessments, ensure they have been integrated within the sequence and methodology and referenced.

- Strictly 'No Smoking Policy' on site
- Manual Handling

7. Defined access and egress to the working area as per the risk assessment?

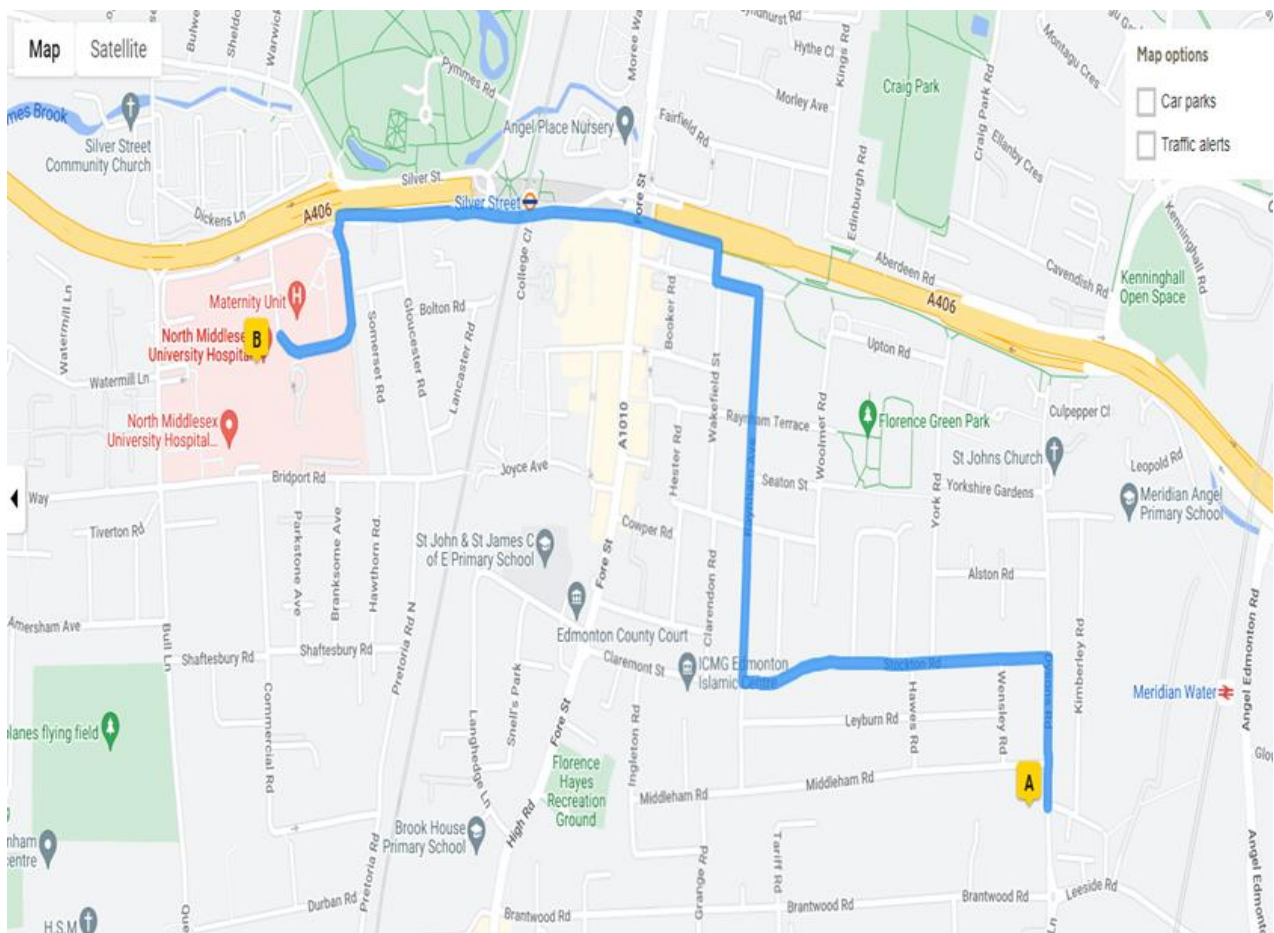
- Site logistics will be followed for all access requirements as per GLD Site logistic plan.
- Traffic Management plan and implementation by GLD
- Fire and Emergency Plans by GLD

8. PPE Requirements (including any additional items for specific work activities). E.g. gloves/ task specific.

- GLD will follow a 5-point PPE system as standard. (Hard hat, Boots, Hi-vest, Gloves and Glasses)
- Additional items of PPE such as coveralls, either JSP Force 8 half mask or disposable mask with FFP3/ KN95 filters will be used whenever necessary.
- If anyone wear the mask at site should have valid face fit certificate.
- Glove type to be assessed subject to materials being handled.
- Hand Sanitiser
- Impact rated Goggles to be worn where there is the risk of flying fragments.

9. Details of any inspections/ monitoring procedures

- The Site Manager will always monitor works on site being carried out by operatives.
- All the vehicles directed appropriately by GLD Banksman within the site boundary.
- All First Aid equipment shall be provided on site, adequate for the maximum number of persons anticipated to be on site at any one time.
- The location of all First Aid Equipment shall be clearly identified.
- All accidents, no matter how minor, including those to any visitor shall be reported to the GLD Site Manager who will enter it into the Site Accident Book and all such accident injuries shall be treated.
- Details of the nearest hospital with Accident and Emergency facilities shall be posted within all management and welfare facilities. GLD to deploy at least a qualified first aider for this work.
- Nearest Hospital: North Middlesex University Hospital, Stirling Way, Edmonton, N18 1QX
- Contact Number: 0208 887 2000



10. Review and Acceptance			
Author:	Greater London Demolition limited	Reviewed By:	JPH
Method Statement Satisfactory	Accepted/Rejected	Method Statement Satisfactory	Accepted/Rejected
Name	S. Thananjayan	Name	
Job Role	Project Assistant	Job Role	
Date	21.04.2023	Date	
Signature	<i>S. Thananjayan</i>	Signature	

METHOD STATEMENT / RISK ASSESSMENT SIGN OFF SHEET

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APPENDIX

- 4014 - GLD - Hoarding Plan Drawing_00
- 4014 - GLD - Scaffold plan Drawing_01



Project	4014 – Dyson Road
Title	GLD Hoarding Plan Drawing
Drawing Number	4014/Hoarding/00
Revision	00



Project	4014 – Dyson Road
Title	GLD Scaffold Plan
Drawing Number	4014/Scaffold Plan/01
Revision	00

Risk Assessment & Method Statement					
Site / Depot / Office:		Edmonton		RA / MS No:	4014
Name of Author (print & sign):		S. Thananjayan		Date:	21.04.2023
Name of Approver (print & sign):				Date:	
Activity Title:		Demolition and site clearance works			
RA / MS Revisions / Confirmation of Review or Changes:					
No:	Reason	Author(print & sign)	Date	Approved(print & sign)	Date

Urban Logistics Tottenham
Demolition and site clearance works

	CONSEQUENCE		
LIKELIHOOD	1- Minor	2- Medium	3- Serious
A- Almost Certain	Moderate	High	Critical
B- Likely	Low	High	High
C- Possible	Low	Moderate	High
D- Unlikely	Low	Low	Moderate
E- Rare	Low	Low	Low

General Risk Assessment Information:					
Project Number:	4014	Project Name:	Edmonton	Date	24/04/2023
ContructionManager:	Derrick Bowyer	Person Completing:	S. Thananjayan	Revision Date	
Location/Address:	Urban logistic Tottenham, Willoughby Road, N17 ORU	Who could be effected:	Client/Principal Contractor/Principal Designer/Public	Unless anything changes prior to this date	
Activity Title:	Demolition and site clearance works				

Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Hazardous Substances:	Irritation, itching, scratching, dry skin Corrosion burns to the skin, eyes & face Adverse health effects causing cold/flu like symptoms and illness Allergy caused by a reaction to substances Infection through inhalation, ingestion, injection or absorption leading to illness Toxicity/poisoning leading to paralysis and death	3- Serious	A- Almost Certain	Critical	* GLD to provide information on any chemical/biological hazards present, or suspected of being, on site. * Where possible avoid working in areas where hazard is present. * GLD to provide substance data sheets for any material stored/left on site. * Any additional investigation to determine nature of contamination present must be undertaken prior to entering area. Specific COSHH or risk assessments will be carried out. * The provision and use of PPE including RPE suitable and sufficient for the hazard present. * A permit to work system will be in operation. * If working in contact with contaminated water, e.g. in sewers, operatives must be inoculated against serious disease. Any skin cuts must be covered. * Washing facilities must be available. * Smoking, naked lights, sparking tools and any nylon material is prohibited. * Observe local signage and historical information.	3- Serious	D- Unlikely	Moderate	
Slips and Trips: Falls on the same level Poor lighting	Musculoskeletal Injuries – sprains, strains etc Broken bones	3- Serious	A- Almost Certain	Critical	* Operatives to wear suitable footwear. * Safe, transit & waste routes to be clearly established and marked. Clear away any build-up of all rubbish, materials, cables and hoses to prevent obstructions. * Stairs to be kept clear. * All areas to be cleaned daily. * Edge protection to be erected where falls can occur / adjacent leading edges. * Sufficient lighting to be installed when going from and to the works areas. * Good housekeeping to be maintained on site and public access routes to the outside areas of site. * Clear up any spillages promptly. * Eliminate uneven floor and ground areas where reasonably practicable. * Display information/safety signage. * All work at height to be carried out in accordance with the Work at Height Regs 2005 (see separate risk assessment). * Prevent personnel walking when ground is broken during tarmac and concrete surface removal – ensure broken ground is levelled by excavators once areas complete.	2- Medium	D- Unlikely	Low	
Mobile Towers/Podiums/Ladders: Falls from Height Materials falling from height Collapse of platform Overloading of platform Access Incorrect Use	Musculoskeletal Injuries – sprains, strains etc Broken bones Significant injuries/Fatalities	3- Serious	A- Almost Certain	Critical	*Tower/Podiums to be erected and Scaff tagged by PASMA trained staff. *Wheel brakes to be applied when in use. *WAH equipment to be used on firm level ground. *WAH equipment will not be moved whilst occupied. *WAH equipment will be free from defects. *Overhead working is not permitted. *SWL of tower will not be exceeded *Work platforms to be fitted with double handrails & toe boards. *WAH equipment will not be used near leading edges or where there is a risk of person falling over a leading edge. *Weekly checks to be completed of all equipment. *Permit will be used when using ladders.	3- Serious	D- Unlikely	Moderate	

Urban Logistics Tottenham
Demolition and site clearance works

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LIKELIHOOD	1- Minor	2- Medium	3- Serious
A- Almost Certain	Moderate	High	Critical
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C- Possible	Low	Moderate	High
D- Unlikely	Low	Low	Moderate
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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Falling Objects: Tools/equipment falling on people Tools/equipment falling causing damage to property.	Significant injuries/fatalities from falling objects Minor injuries from undertaking works	3- Serious	B- Likely	High	* Access to area below working staff must be restricted by means of barriers and warning signs or another person to restrict access into the area. * Safe means of access to the work location at high level will be provided e.g. ladders/scaffolding. * Redundant materials and debris must not be thrown off the working location – materials must be lowered in suitable containers. * Only tools necessary for the task must be carried. * Tools must be carried securely. * Areas of work where objects are likely to fall down must be avoided. * All near misses must be reported to the Site Manager and Active's Management. * Protective footwear with rubber insulated soles to be worn at all times. * All areas of demolition to have drop zone, personnel to remain 10m back from mechanical demolition works.	3- Serious	D- Unlikely	Moderate	
Working at Height: Falls from height Falling Materials Collapse of Structure	Significant Injuries/fatalities from falls Minor injuries from undertaking works	3- Serious	B- Likely	High	* Alternative method of works to be identified where reasonably practicable. * Works at height will be planned and supervised by trained persons. * Safe means of access to the works location will be established. * Good housekeeping must be employed to ensure that tools/materials are remove promptly. * The works area below will be cordoned off with warning notices placed at relevant points. * Demolish remotely wherever possible. * Where used, guard rails, toe-boards, unprotected gaps shall conform to requirements of the Work at Height Regulations i.e. top rail at 950mm min, toe-boards 150mm min, gaps of 470mm max. * Use hierarchy of controls when considering work at height; Only trained, competent operatives to erect & use mobile towers and podium steps; Ladders to be used only for low risk and short duration work with a risk assessment in place. * Statutory weekly inspections of all platforms and temporary access equipment to be inspected, including mobile towers. * All other work equipment including harnesses regularly inspected on a weekly basis & maintained in good order. Any deficiencies will require the equipment to be taken out of service. Records of inspections to be maintained. * Operatives to be trained in working at height and in the safe use of harnesses. * Scissor lifts to be operated by IPAF certified persons only.	3- Serious	D- Unlikely	Moderate	
Manual handling of waste / tools:	Musculoskeletal Injuries – sprains, strains etc Cuts and Bruises, Fibre Release	3- Serious	C- Possible	High	* Routes to be kept clear and be well lit. * Adequate breaks to be taken between handling operations. * Manual Handling assessment to be undertaken prior to works commencing. * Gloves to be worn (BS EN 420:2003 for general requirements). * Bags shall not be overfilled. * All plant is hand portable. * Correct posture to be adopted. * Waste vehicles/skips to be parked close to work area to minimise carry distance. * Utilise mechanical lifting and carrying aids where possible. * Excavator/skid steer should be utilised where possible. * Team lifts to be employed where necessary. * Wheeled bins to be utilised for movement of waste where excavator/skid steer cannot be used.	2- Medium	D- Unlikely	Low	

Urban Logistics Tottenham
Demolition and site clearance works

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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Hot Cutting (Oxy/Propane): Fire Explosion	Fire Heat Flashback Burns Fumes inhalation Explosion Metal Fume Fever' Respiratory problems & Systematic poisoning from the release of zinc oxide fumes	3- Serious	A- Almost Certain	Critical	* All hot works to be completed by trained operatives only. * Hot works permit required before works commence. * All friable materials to be removed from works area. * Work to be carried out in an area free from combustible and flammable materials. * Fire extinguishers/water hose to be present in works location. * Gas bottles to be stored on trolley at all times. Cylinders are to be kept upright and secure * Where gas bottles are to be onsite they must be stored in separate cages and externally in agreed location. * Hoses to be fitted with flashback arrestors. * Hoses and bottles are to be inspected daily for damage or leaks. * Fire risk of building structure to be assessed before hot works begins. * Area on and around the machine to be welded is to be degreased at least 1 metre from the cut. * Operatives to wear PPE suitable for hot works. Hand protection (gauntlets), eye protection (safety cutting goggles), burning overalls (flame retardant), RPE (P3 half mask fitted with ABE1 filters). * Hands, arms and legs are to be covered at all times whilst cutting. * RPE to be worn when completing works with burning gear. With filter conforming to BS EN143 P3 where there is a risk of poisonous fumes being produced through the cutting process i.e. lead paint finishes or galvanised surfaces. * Fire watchman to oversee all works. * Screens are to be installed around the working area to protect others. * All works to be completed and watched by the fire watch 1 hour before site closure.	3- Serious	D- Unlikely	Moderate	Detailed risk assessment to be provided for any steel work within the site
Storage of Gas Cylinders for Hot Works Operations	Fire, Explosion Muscular Skeletal Injury, Burns Fumes	3- Serious	A- Almost Certain	Critical	* Provide gas cage with safety signage for propane/acetylene cylinders. * Provide safety signage at site of oxygen bank. * Gas cage/oxygen bank to be sited away from traffic/pedestrian routes & all gases a minimum of 3 metres apart. * No smoking policy to be enforced in storage area. * Loose gas cylinders to be tied up or otherwise secured in an upright position. * All hose connections to be made with pressure clips. * Operatives trained in safe use of gas equipment. * Operatives to wear gauntlets & flameproof overalls during gas cutting.	3- Serious	D- Unlikely	Moderate	Detailed risk assessment to be provided for any steel work within the site
Use of power tools: Flying debris or particles Contact with moving parts Torque/sudden movement of the tool Manual handling of equipment Damage to power supply leads Noise , Vibration Trailing electric cables Ignition (sparks)	Lacerations or even fatalities from flying particles Entanglement injuries, including loss of fingers from contact with moving parts Electrocution. Eye injuries from flying particles/damaged tools. Musculoskeletal injuries from sudden unexpected movements of the tool. Serious foot injuries. Cuts and bruises. Vibration injuries. Noise-induced hearing loss. Burns to hand, face and body from uncontrolled fires.	3- Serious	C- Possible	High	* All power tools will be fitted with the required guards. * Power will be low voltage (110volt) and have relevant PAT certificate. * When using tools operatives will wear eye (BS EN 166:2002 face shield/safety goggles) and ear protection (BS EN 352 – 1 ear defenders - 2 earplugs - 3 ear defenders on safety helmets). * Power tools will not be used inverted and all cuts will be completed away from the operator. * Tools will be used by competent persons. Training to be provided and only personnel with abrasive wheel cert may fit discs to grinders. * Tools must always be inspected prior to use, to ensure tool bits are compatible and to check for signs of damage/wear. * Damaged tool/tool bits must be disposed of appropriately. * When not being used tools will be stored properly and securely to prevent unauthorised use. * Regular planned maintenance/inspection undertaken by a competent/qualified person in line with the manufacturers and legislative requirements (records to be kept within site weekly electrical tool check list). * Trailing cables/air hoses must not be left in the path of others. All plugs and sockets must conform to BS 4343. * All electrical power tools must be double insulated or earthed. * The tool must be disconnected from the power supply prior to any adjustments or changes being made. * Noise should be reduced at source and hearing protection worn conforming to BS EN 352 – operatives to view PPE outlined in method statement * Anti-vibration tools should be used where possible, operatives to rotate use of tools (as per manufacturers guidance and HAV calculator) and all exposure must be recorded in site folder on HAV forms. * Operatives must not wear loose fitting clothing and long hair must be tied back. * Other risk assessments such as hot works will be referred to	2- Medium	C- Possible	Moderate	

Urban Logistics Tottenham
Demolition and site clearance works

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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Use of abrasive wheels: Flying particles Contact with moving parts Incorrect Use	Cuts, Lacerations, Eye injuries	3- Serious	C- Possible	High	* Grinders will be fitted with the required guards. * When using tools operatives will wear eye and ear protection as stated above. * Grinders will not be used inverted and all cuts will be completed away from the operator. * Abrasive wheel to be fitted by trained persons only. Certs to be retained on site. * When not in use tools will be removed and stored. * Tools will be inspected daily, cutting discs to be changed on a regular basis.	2- Medium	C- Possible	Moderate	
Isolations:	Electrocution Release of gases/fumes, Fatality, Service Strike Burns Possible damage to plant	3- Serious	A- Almost Certain	Critical	* Isolations for the site MUST be completed prior to works being undertaken. Gas intake remains live and is to be protected (see separate risk assessment). * Isolation certificates to be issued to Site Management. * Temporary power supplied (110v) to the work faces. * Obtain written records of disconnections on site plan and obtain certificates of isolation from the service provider/ GLD. * Substation to be isolated prior to demolition by Client	High	C- Possible	High	
Cables and other services running through adjacent buildings into 'live' work areas:	Possible contact with people and services pulled through working area during work process Possible damage to structure	3- Serious	A- Almost Certain	Critical	Toolbox talk to be given all operatives regarding overhead cable running near the welfare area regarding the possible hazard,, necessary warning signs to be in place.	High	C- Possible	High	
Access & Egress to and from work location: Changes in levels Loose Materials Moving and Plant	Musculoskeletal Injuries – sprains, strains etc, Broken bones	3- Serious	C- Possible	High	* Access & egress to works areas will be made possible by defined routes setup by Site Management. * Transit/waste routes set out will be clearly marked and kept clear from other site activities. * Operatives to keep defining safe walkways set out by Site Management.	2- Medium	D- Unlikely	Low	
Fire:	Possible or potential death Burns Plant Damage, Property Damage	3- Serious	A- Almost Certain	Critical	* Ensure fire plan in place on site (provided by Principle Contractor (GLD)). * Fire extinguishers suitable for the possible types of fire. * Ensure fire extinguishers are positioned in vicinity of hot works and plant operations. * Conduct fire drills (arranged by Principle Contractors). * Minimize piles of flammable materials and no fires on site. * Air horns to be provided at fire points to raise alarm/or utilise existing fire alarm on site (Principle Contractor (GLD) to supply). * A permit to work system to be in place to cover hot works * Ensure two points of emergency access at all times. * Fire marshal for site to be allocated by Principle Contractor. * Fire plan to be posted around site with clear indication of where muster point is (arranged by Principle Contractor (GLD)).	2- Medium	C- Possible	Moderate	

Urban Logistics Tottenham
Demolition and site clearance works

	CONSEQUENCE		
LIKELIHOOD	1- Minor	2- Medium	3- Serious
A- Almost Certain	Moderate	High	Critical
B- Likely	Low	High	High
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General Risk Assessment Information:					
Project Number:	4014	Project Name:	Edmonton	Date	24/04/2023
ContruactionManager:	Derrick Bowyer	Person Completing:	S. Thananjayan	Revision Date	
Location/Address:	Urban logistic Tottenham, Willoughby Road, N17 ORU	Who could be effected:	Client/Principal Contractor/Principal Designer/Public	Unless anything changes prior to this date	
Activity Title:	Demolition and site clearance works				

Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Excavations: Impact with plant and underground services Plant movement Collapse Fall from height & falling objects Reduced stability of nearby structures Hazardous substances	Crushing, Electrocutation, Explosion, Fire, Collapse	3- Serious	A- Almost Certain	Critical	*At all stages of the excavation, a responsible person must supervise the work and the workers given clear instructions on working safely in the excavation. The excavation must be inspected on a daily basis by the responsible person. * Plant being used (20 & 35t excavators) above the trench then no operatives will be permitted in the trench when the machine is in use. * Designated contained plant area to be barriered off using chapter 8 and banksman to be present. * Area must be scanned for underground services & permit to excavate issued before work commences. Hand digging only in the vicinity of underground services. Underground services to be identified by underground services scan conducted by others. * Area of dig shall be secured by 2M barrier/exclusion zone. * Contamination reports must be provided prior to excavation works. Principle Contractor (GLD) will review arrange muck disposal. * Where contamination is identified, RAMS will be revisited to apply relevant risk reductions and methods of works. * Gas monitoring to be conducted where hazardous substances are likely.	2- Medium	C- Possible	Moderate	
Demolition arisings falling into or onto adjacent live areas:	Possible damage to adjacent property Possible physical injury to member of the public/operative	3- Serious	C- Possible	High	* Set up demolition exclusion zone around the zone and demolish the structure in a controlled manor and as detailed in the method statement. * Exclusion zone to be representative of the structure height to ensure collapse would be contained within the site boundary. * Structures to be demolished into the building footprint only. * Use trained and experienced demolition machine drivers to carry out the works (copies of operative certs/cards to be maintained on site). * Trained operative to bank the machine during works close to the boundary line. * Marshal to be sited in foot path during demolition of brick boundary wall	2- Medium	D- Unlikely	Low	
Demolition during inclement weather: Material/sheets or arisings being caught by high winds or gusts Flooding Lightning strike Scaffold collapse	Operatives and third parties injured from contact with flying debris Major injury or death Damage to property Drowning Electrocutation	3- Serious	C- Possible	High	* Restrict demolition during windy or gusty weather. Weather reports to be assessed day before planned works to ensure high winds will not carry material airborne and potentially out of the site boundary). * All materials with potential to be taken be wind to be weighted down. * No external works to commence during lightning storm. * Ensure excavations are not worked in during heavy rains, sumps are operational and tested if required. Water filled excavations to be segregated using heras fencing with feet and clips.	2- Medium	D- Unlikely	Low	
Fitting Hydraulic Attachments to Excavators: Poor Connections Contact with moving parts	Cuts and abrasions Crushing Trapped Fingers Skin contact with hydraulic oil	3- Serious	C- Possible	High	* Only trained operatives to change attachments. * The use of correct PPE when changing attachments i.e. impervious gloves, eye protection (face shield, safety goggle), coveralls (disposable white). * Ensure a spacious change over work area is designated to work unhindered. Operatives not to work under or near moving excavator arms. * Ensure that fingers are away from areas of possible entrapment such as at fixing points where pins are inserted. * Inform operatives of the findings of COSHH assessments for hazardous substances used during the process. * Communication and eye contact to be maintained with excavator operator at all times.	2- Medium	D- Unlikely	Low	

Urban Logistics Tottenham
Demolition and site clearance works

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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Fuel or hydraulic oil leaks from plant and spillage:	Slips/ falls Dermatitis Environmental impact due to spillage Fire Explosion	3- Serious	C- Possible	High	* Designate one competent person to take charge of refuelling. All drivers to be trained in operation of fuel pumps. * All spills to be cleaned up immediately. * Apply barrier cream before operation. * Wash hands after operation. * Provision of drip trays. * PPE to include impervious disposable gloves and safety goggles. * No smoking or naked lights. * Intrinsically safe equipment to be used in area. * No mobile phone use. * No activities to be conducted that may create sparks. * No hot works in area. * Fire extinguishers to be available.	2- Medium	D- Unlikely	Low	
Refuelling Plant and Equipment:	Slips/ falls Dermatitis Environmental impact due to spillage Fire Explosion	3- Serious	C- Possible	High	* Designate one competent person to take charge of refuelling. All drivers to be trained in operation of fuel pumps. * All spills to be cleaned up immediately. * Apply barrier cream before operation. * Wash hands after operation. * Provision of drip trays. * PPE to include impervious disposable gloves and safety goggles. * No smoking or naked lights. * Intrinsically safe equipment to be used in area. * No mobile phone use. * No activities to be conducted that may create sparks. * No hot works in area. * Fire extinguishers to be available.	2- Medium	D- Unlikely	Low	
Breaking Concrete Using Hand Held Breaker:	Struck by tool or debris Dust (see specific RA) VWF (see HAV RA) Noise (see specific RA)	3- Serious	C- Possible	High	* Place sandbags on top of each other in front of feet when conditions dictate breaking is carried out at a raised level. * Clear up dust / slurry regularly. * Anti-vibration tools will be used, operatives to rotate use of tools (as per manufacturers guidance and HAV calculator) and all exposure must be recorded in site folder on HAV forms.	2- Medium	D- Unlikely	Low	Specific risk assessment to be provided
Dust: Dust inhalation Irritation to eye's	Silicosis Eye irritation Damage to neighbouring property	3- Serious	C- Possible	High	* Use water in dry conditions to suppress dust. Keep levels down so far as reasonably practical below the Workplace Exposure Limit (WEL) of 0.3 mg/m³ Time Weighted Average (TWA) over an 8hr period. * Waste materials loading into skips/tippers to be wetted before and during operation. * Vehicles leaving site to be washed down prior to leaving site boundary. * Use dust monitoring equipment where necessary at perimeter of site (to be arranged by Principle Contractor – GLD). Measures to be taken to reduce excessive levels. * Employees to wear eye protection (safety glasses BS EN 166:2002 and 170:2002 for ultraviolet filters) and RPE (EN143 half mask fitted with P3 filter).	2- Medium	D- Unlikely	Low	
Hand arm vibration:	Possible physical injury	3- Serious	C- Possible	High	* Select “low vibration” tools. * Wear anti-vibration gloves. * Limit use of equipment to restrict vibration dose to the EAV 2.5 m/s² A (8) and not exceed the ELV of 5.0 m/s² A(8) . Work to manufactures guidance and rotate work force so as not to expose workers to limits of more than 400 points per day. Vibration level of breakers = 10m/s² = 200pts per hour. Workers to be rotated so as not to work more than 2hrs a day. * Keep hands warm/massage fingers during work. * Ensure equipment is properly maintained. *Only trained/experienced operators operate equipment.	2- Medium	D- Unlikely	Low	

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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Noise:	Noise induced hearing loss Disruption from site to neighbours	3- Serious	C- Possible	High	* Use modern silenced plant. * Operatives, contractors and visitors to wear hearing protection in hearing protection zones that are established (BS EN 352 – 1 ear defenders - 2 earplugs - 3 ear defenders on safety helmets) . * Sound monitor to be used to establish hearing protection zone at 85 decibels. The level at which employers must provide hearing protection and hearing protection zones is 85 decibels. *Hearing protection will be offered at 80 decibels. An assessment will be made if personnel request hearing protection at lower than 80 decibels.	2- Medium	D- Unlikely	Low	
The Use of Hand Tools: Mattocks, Sledgehammers, Shovels, Brooms	Falling materials Falls due to access problems Impact with the tool Musculo skeletal injuries Contamination with substance being worked with Inhalation of dust	3- Serious	C- Possible	High	* Wherever possible use mechanical means to replace manual handling of tools, equipment or demolition arisings. * Ensure that the tool is correct for the job. * Ensure that the tool is in good order and suitably sharp. * Ensure that the operative is instructed how to use the tool safely. * Ensure that lighting is sufficient. * Ensure that the access is safe with any working platform compliant with Work at Height Regulations 2005. * All leading edges must be guarded with double rails and toe boards to comply with Work at Height Regulations 2005. * Ensure that operatives are trained in site safety. * Work will be scheduled / phased. * PPE appropriate to the task is issued and used, e.g. hard hats (BS EN397:2012), safety footwear (BS EN 20345:2011), impact resistant goggles (BS EN 166:2002, ear defenders (BS EN 352), dust masks (BS EN143) and gloves (BS EN 420:2003).	2- Medium	D- Unlikely	Low	
Lifting Operations: Failure of Lifting Equipment and Accessories. Falling Load and Materials	Falling materials Personal injury/death Property damage Contamination with substance being lifted Damage to neighbouring property Crushing	3- Serious	C- Possible	High	* Lift to be planned and supervised. Competent and trained operatives. * Lifting equipment and accessories to certified and marked with unique ID and SWL. *Certificate of Thorough Examination. * Pre- use visual inspection of equipment and recorded in the LOLER 98' Register. *Exclusion zone set up directly below lifting area, Heras fencing with signage. *Prohibit access into exclusion zone during lift by marshals. Sheet over skips during lifting of loaded skips.	2- Medium	D- Unlikely	Low	
Loading and Unloading of Roll On/Off Skip Handler: Crushing of personnel Tipping of vehicle Contact with overhead services Falling objects	Falling materials Personal injury/death Property damage Contamination with substance being lifted Damage to neighbouring property Crushing	3- Serious	C- Possible	High	*Clear area for joint length of truck and skip plus 3 metres. *Ensure unnecessary personnel clear of work area. *Truck in line with laden skip before loading. *Ensure maximum sideways slope of 5 degrees. *Position skips to be recovered away from overhead cables. *Level loads prior to recovery. *Loads to be sheeted. *Operatives to wear head protection outside of cab. *Use banksman when reversing. Avoid reversing where possible.	2- Medium	D- Unlikely	Low	
Machinery over sailing the site boundary:	Possible damage to adjacent property Possible injury to members of the public	3- Serious	C- Possible	High	* At no time will plant be allowed to over sail the site boundary. Machine working close to the boundary will have a trained operative banking them at all times.	2- Medium	D- Unlikely	Low	
Maintaining safe separation of pedestrians during lifting operations: Member of the public or third party coming into contact with lifting operation	Falling materials Personal injury/death Crushing	3- Serious	C- Possible	High	* All works to be conducted within the boundaries of the site and at a distance that no material or equipment can fall outside the site boundary. * Trained banksmen to be used during the work process. Banksmen to wear high visibility clothing. * Lifting Plan to be in place	2- Medium	D- Unlikely	Low	

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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Material Transport & Traffic Management:	Possible physical injury Collision Mud left on roads	3- Serious	B- Likely	High	* Ensure that all tippers are banked, load and sheet tippers as per regulations. * Segregate vehicle and pedestrian traffic. * Wheels to be washed prior to leaving site. * Vehicles and plant to be fitted with reversing alarm / flashing amber beacon. * Ensure that all vehicles use the Traffic Movement Plan. * Avoid reversing vehicles where possible. * Adhere to GLD traffic management plan.	2- Medium	C- Possible	Moderate	
Vehicles entering and leaving the site access to and from the site:	Possible physical injury Collision	3- Serious	B- Likely	High	* Provide adequate access with good visibility. * All operatives to wear hi-vis vests or jackets. * Use existing access road and pedestrian routes. * Lorry movements to be co-ordinated with the adjacent area that remains live-use agreed Traffic Movement Plan * Lorry movements will be minimised during high vehicular movements in surrounding area i.e. working start times and finish times of local businesses.	2- Medium	C- Possible	Moderate	
Operations which could present a hazard to the public and third parties: i.e. Demolition close to public footpaths	Injury to the public or third party Contamination from substances used on site	3- Serious	B- Likely	High	* Site boundary to be hoarded. * Warning notices to be displayed around exclusion zone and site boundaries by principle Contractor – GLD. * Screens, debris netting to be used where required. * Safe working practices to be employed as per Active and GLD site rules. * Two-way radio communication between machine operators and Banksmen. * Heras fence line to be implemented during hoarding installation works.	2- Medium	D- Unlikely	Low	
Temporary instability of structure:	Operatives and contractors being hit by falling debris. Possible uncontrolled collapse Possible physical Injury Possible plant Damage Possible shock vibration effects to live underground cables and effects systems and equipment that feed neighbouring buildings if large sections of building impact ground.	3- Serious	A- Almost Certain	Critical	* Assess structure prior to and during demolition. Trained operatives to continually asses the structure as work progresses. * Use remote methods incorporating 20t and 35t excavators. * Maintain demolition exclusion zones. * Check for live underground services and lay demolished hardcore arisings over ground area to act as a vibration buffer. * Ensure engineers/temporary works designers are kept informed of progress and are consulted where concerns are raised. * Never undermine the retaining wall without any temporary support.	2- Medium	C- Possible	Moderate	

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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
Use of Machinery including 360 Tracked Excavator:	Possible death Possible physical injury Crushing Collision, Property or plant damage, Possible damage to hearing Possibility of striking underground services Over tipping of Vehicles or plant	3- Serious	A- Almost Certain	Critical	* Only trained operatives to CPCS standard to use machinery. Copies of certs/cards to be held on site. * Ensure machinery guarding is in place at all times. * Each machine to be inspected prior to use and entered in to the PUWER or LOLER register as applicable once a day. * Ensure that all devices to keep the operator safe in place on machinery are used i.e. seat belts. * Establish hearing protection zone as necessary. See Noise RA. * Machines to be banked at all times. * Mirrors or CCTV to be in place on machine to allow for 360° vision for machine operator. * Carry out underground services scan of area to be excavated. * Work in accordance with HSG47 'Avoiding Dangers from Underground Services'. * Only tip or operate on firm level ground to ensure centre of gravity at all times. * Ensure surface working on can withstand load of machine. * Provide flashing amber light and / or reversing warning. * Clear routes identified. * Plant to operate within designated demolition zone and excavation zone.	2- Medium	C- Possible	Moderate	Task specific risk assement to be provided
Injury to worker resulting from poor translation/ communication: Injury to others resulting from poor translation/communication Dangerous occurrence resulting from poor translation/communication	Personal injury Death	3- Serious	A- Almost Certain	Critical	* Provision of signage/documents in a format understandable by foreign workers. * Provision of translators to give instructions/briefings. * Provision of adequate supervision. Supervisors to be able to communicate in English and to operatives requiring translation. * Appropriate site related training.	2- Medium	C- Possible	Moderate	
Use of MEWP systems:	Tipping MEWP Falling from MEWP Dropping material from MEWP Struck by MEWP Trapped by MEWP	3- Serious	B- Likely	High	* All operators shall be trained and experienced in the use of the equipment (IPAF). * Lifting equipment to be thoroughly examined at least every 6 months and certificated. * A trained person shall carry out weekly inspections of lifting equipment and record the findings. * Manufacturer's operating instructions are to be available to the operator. * Exclusion zone shall be established around the base of the MEWP. During soft strip works, 10m exclusion zone required below operations. * Operatives shall use full-body harness & lanyard attached to suitable anchorage point where required. * One operator to be positioned on ground level at all times during use of MEWP.	2- Medium	D- Unlikely	Low	Task specific risk assement to be provided

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Hazard		Consequence	Likelihood	Initial Risk Level	Control Measures/ Forward procedures	Consequence	Likelihood	Risk Re-Evaluation	Comments
COVID-19	The virus that causes COVID-19 infects people of all ages. However, evidence to date suggests that two groups of people are at a higher risk of getting severe COVID-19 disease. These are older people (that is people over 60 years old); and those with underlying medical conditions (such as cardiovascular disease, diabetes, chronic respiratory disease, and cancer)	3- Serious	A- Almost Certain	Critical	Eliminate: * Avoid skin to skin and face to face contact within working environment. While using the stairs consider one-way systems. * Consider alternative or additional mechanical aids to reduce face to face site meetings/ Inductions. Only absolutely necessary meeting participants should attend. Attendees should be at least two metres apart from each other. Meeting rooms should be well ventilated / windows opened to allow in fresh air. Consider holding meetings in open areas where possible Reduce: * Minimise frequency and time workers are within 2 metres of each other. Minimise the number of workers involved in these tasks. Workers should work side by side, or facing away from each other, rather than face to face. Regularly clean common touchpoints, doors, buttons, handles, vehicle cabs, tools, equipment etc.Increase ventilation in enclosed spaces. Workers should wash their hands before and after using any equipment Control: Where face to face working is essential to carry out a task when working within 2m * Keep this to 15 minutes or less where possible * Consider introducing an enhanced authorisation process for these activities. Provide additional supervision to monitor and manage compliance including provision of appropriate PPE. If something happens at work which results in (or could result in) the release or escape of coronavirus you must report this as a dangerous occurrence under RIDDOR.	High	C- Possible	High	