# **Demolition Environmental Management Plan**

# MANAGING THE SITE ENVIRONMENT

at

150 Holborn

For

John F Hunt

Date 18/07/18

John F Hunt

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Issue/Revision	Date	Prepared by :	Signature	Reviewed by	Signature	Reason for Issue
First Issue	18/07/18	Daniel		Tom		First
		Sweeney		O'Connell/Richard		Issue
				Strong		
	23/07/18	Daniel		Tom		Second
Second Issue		Sweeney		O'Connell/Richard		Issue
				Strong		

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# 1) Introduction

The project being undertaken by John F Hunt is for the controlled demolition and site clearance of 150 Holborn

The purpose of this EMP is to describe and detail the measures proposed in order to minimise and mitigate the environmental impact of the demolition works. Specifically, the EMP sets out:

- To ensure that construction industry best practice standards are adopted throughout the entire demolition process
- To ensure that the impact of the project on neighbours and the surrounding area will be suitably controlled.
- To confirm that where impacts upon neighbours and stakeholders cannot be avoided, the EMP demonstrates the commitment of John F Hunt to undertake the demolition activities in such a way as to avoid or minimise any environmental effects and provides a mechanism for the implementation of recommended mitigation and monitoring measures throughout demolition operations.

#### Legal Compliance

Considerable environmental legislation applies to the works to be undertaken. Prior to the demolition works, all relevant legislation, including requirements for licenses, permits and/or consents, shall be identified John F Hunt, as appointed Principal Contractor, will provide details of how compliance is to be achieved as noted within this EMP.

#### Scope of Works

- Hoarding to be in the Clients designated colour and lit supplied with lockable gates at site entrances.
- Establishment of Site Security located at the Site Entrances
- Establishment of all site management and welfare facilities for the maximum number of persons anticipated to be on site at any one time
- Establishment of all contractual HSEQA documentation, notifications and meeting requirements
- Carrying out of all appropriate surveys (e.g. Asbestos)
- The identification, isolation and disconnection of all site M&E and fire detection and protection services in liaison with relevant utilities in conjunction with the Client
- Establishment of all required site temporary electrical power and lighting and water requirements using company approved M&E services subcontractors
- Establishment of all site Fire, First Aid and Site Evacuation Procedures
- Design, supply, install and maintain all temporary works to maintain the stability of the existing structure(s) and surrounding structures during the demolition phase
- Establishment of all site transport and pedestrian routes
- Establishment of site storage areas



- The removal of all hazardous classified wastes from site for disposal at a licensed waste carrier and disposal landfill site
- Pre- Demolition Environmental clean of building removing all rodent infestation, drug related debris and other hazardous or biological risks wastes
- The strip out and removal of all non-hazardous wastes for recycling or disposal via waste transfer stations and/or recycling centres
- Working into the building from the top down, bay by bay will maintain stability throughout the works.
- This systematic process of demolition and clearing will continue until the building has been demolished.
- This process will continue until all structures have been safely reduced to the ground floor slab level.
- Final inspection of the site and removal of all plant, equipment and tools
- The preparation and submission of the Demolition Project Completion Report for the site and submission to Client for inclusion within his site safety file

### Location

150 Holborn London EC1N 1NS

### Contract Programme

The contract programme for the works is

Start Date: 30/07/18

Finish Date: 14/01/19

Site Times

### The site operating times will be

0800 to 1800 Monday to Friday 0800 to 1300 Saturdays

There will be no working on site on Sundays and Bank Holidays

Any requirements to work outside these times will be by prior agreement with the London Borough of Camden.

A Section 61 application will be submitted to the London Borough of Camden prior to works beginning on site.

#### **Contact Details**

Project Management Team Office facilities will be located on site in cabins

#### Principal Contractor Details

John F Hunt London Road Grays RM20 4DB

#### **Local Authority Details**

London Borough of Camden Contact Camden Reception 5 Pancras Square London N1C 4AG

City of London Corporation Guildhall, PO Box 270 London EC2P 2EJ

#### Management Structure

The anticipated roles and responsibilities of the parties involved in the works are set out below.

#### The Client

The Client has overall responsibility for appointing the Client's Representative, Employer's Agent, Community Liaison Officer, Terrestrial RV reception surveyor and the Demolition Contractor.

#### Demolition Contractor acting as Principal Contractor

John F Hunt will be the Principal Contractor, responsible for the day to day Management of Health and Safety and Environmental and Quality performance during the demolition works. John F Hunt will be responsible for implementing the EMP, including the development of detailed proposals in connection therewith, monitoring the performance of sub-contractors and maintaining records to demonstrate the compliance with and implementation of the EMP.

#### Employer's Agent

The Employer's Agent will carry out regular reviews under the terms of the Demolition Contract and be responsible for directing John F Hunt as Principal Contractor with regard to the delivery of the EMP in accordance therewith.

#### All of John F Hunt 's Staff and Subcontractors

All of John F Hunt 's staff and subcontractors have the responsibility to ensure that they:

Work to agreed plans, methods and procedures to minimise environmental impacts;



- Understand the importance of avoiding pollution on-site, including noise and dust, and how to respond in the event of an incident to avoid or limit environmental impact;
- Report all incidents immediately to their line manager;
- Monitor the work place for potential environmental risks and alert their line manager if any are observed; and co-operate as required during site inspections and audit.

#### **Key Contacts**

Richard Strong, Project Manager John F Hunt Europa Park London Road RM20 4DB PH: 07976 863453

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### 2) Managing the Environment

In undertaking the work John F Hunt aims to maximise the requirements of sustainable development within the sites new construction. This will be achieved by meeting the basis of sustainability which is "The meeting of the needs of the present without comprising the ability of future generations to meet their needs". It's the efficient use of resources and energy today without compromising future primary resources for others.

John F Hunt will contribute to this by:

- Returning to the new construction of the site, and the construction industry in general by recovery for reuse or recycling the highest amount of materials from what was originally used on site. So, maximising the use of secondary materials and minimising the use of primary resources. Therefore, achieving an increase in resource efficiency so reducing redevelopment costs for the new construction and the projects overall environmental impact
- The monitoring and reduction of energy and water use on site
- The monitoring and reduction of emissions from site and from all those vehicles coming and going from the site
- Assessing and continuously improving John F Hunt's environmental performance on site

It will be the policy of this company to employ only subcontractors that are competent in their field and able to meet the requirements of this Environmental Management Plan and John F Hunt Environmental Management Policy.

Part of achieving approved subcontractor status with this company, each individual company will not only have to achieve a safety accreditation, but also an environmental management one, and declare their commitment to our environmental management requirements and procedures

John F Hunt will undertake the environmental management of the site in accordance with John F Hunt Environmental Management Policy, developed site work package Risk Assessments and Method statements and this Environmental Management Plan all of which have been developed to ensure compliance to ISO 14001. Where this is the commitment to lessen the site activities adverse impacts on the environment, and maximise the beneficial impacts all by employing the best available techniques.

With the principle of John F Hunt Environmental Management System being to: -

- Identifying all the environmental aspects and impacts
- Evaluating the significance of each impact
- Setting of objectives and targets for the improvement of those impacts
- Introducing controls and monitoring of those impacts
- Maintaining adequate environmental records and auditing those systems to measure environmental performance
- Environmental Training for persons implementing and managing the requirements
- Provision of site environmental inductions for all site operatives and subcontractors

The management of this project shall also be compliant with the relevant safety requirements as detailed within John F Hunt 's Health and Safety Policy and Asbestos Management Policy and those listed within Section 10 of this document.

The submission of this Environmental Management Plan is to ensure compliance with the London Borough of Camden Considerate Contractors scheme whose aim is to ensure the



demolition work on site is carried out with due regard to those living and working adjacent to the project, and to those pedestrians and vehicle users passing the site.

150 Holborn will be registered with the Considerate Constructor's Scheme and subject to their auditing schedule.

All site management, operatives and subcontractors will be advised of the requirements of this Environmental Management plan as part of their site induction provided by the Site Project Manager, and will be required to achieve compliance with its aims and requirements

This company will also maintain regular liaison all relevant authorities and environmental consultative resources available to ensure this Environmental Management Plan remains effective and compliant

### Aspects

Following a site assessment, the following provides details of the Aspects identified from the 150 Holborn Demolition Project;

- Delivery and collection of plant and equipment to the 150 Holborn Demolition Project.
- The process of asbestos removal, followed by the controlled mechanical demolition and dismantling of all the industrial plant and administration building areas of the site.
- Plant operations and lorry movements to achieve the scope of works.
- The storage and use on site of diesel, fuels, oils etc.
- The storage of oxygen and L.P.G.
- Site Security and task lighting.
- The removal and disposal of asbestos containing materials.
- The removal and disposal by recycling of all ferrous and non-ferrous materials, plant and equipment.
- Removal of soft strip materials and disposal off site.
- Site traffic movements and off-site transport movements.
- Hazardous and non-Hazardous waste collection and disposal.

#### **Adverse Impacts**

The following provides details of the Adverse Impacts identified from the 150 Holborn Demolition Project;

- Demolition process noise, dust and vibration.
- Potential for possible asbestos fibre release from Notifiable and non-notifiable asbestos containing materials being removed.
- Potential for mineral insulation fibre release.
- Adjacent drainage and waterway pollution.
- Site energy and water usage.
- Significant commercial vehicle movements to and from site.
- Diesel fuel use.
- Diesel fuel and various oils usage and spillage.
- Site plant and commercial vehicle exhaust fumes (carbon emissions).
- Site lighting intrusion from the site demolition works.
- Effects of the demolition work on site neighbours and those passing the site.
- Rodent and pest infestation and migration.



- Community concerns.
- Wildlife and habitat disturbance.

# **Beneficial Impacts**

The following provides details of the Beneficial Impacts identified from the 150 Holborn Demolition Project;

The recovery for reuse or recycling of such materials as: -

- All non-ferrous scrap materials
- Structural steelwork
- All high and medium voltage cabling
- All stripped out mechanical and electrical services and associated fixtures and fittings having a potential reuse or recycling value
- All soft strip fixtures and fittings having a reuse value
- Recoverable glass
- Carpet tiles for local authority properties
- Carpeting for covering scaffold access platforms
- Salvaging of artefacts for reuse

In the recovery for reuse or recycling of materials John F Hunt will use local hauliers where possible to reduce on miles travelled for collections. A list of local hauliers can be found in Section 5.

#### Sensitive Receptors

Receptor	Location
Conservation Area	n/a
Listed Buildings	Name: GRAY'S INN Designation Type: Park and Garden Grade: II* List UID: 1000351
Existing Residential Properties	Brooke Street Grays Inn Road
Existing Commercial Properties	Brooke Street Grays Inn Road A40
Noise & Vibration	Noise and vibration may be caused by vehicle movement and through other demolition works, John F Hunt works closely with the local authority and neighbours to ensure that complaints and impacts are minimised.
Local Air Quality	Dust may impact on the air quality of the surrounding area so dust suppression machines will be located on areas of the site that are under demolition to minimise the dust intake into the air.
Waste & Materials Management	Waste management on site will adhere to the waste hierarchy and attempt to either

reuse materials on site or send for
recycling at every possible opportunity.
All waste vehicles will be inspected when
leaving to ensure all is secure and is
clean to prevent further pollution.

# **Environmental Aspect and Impacts – Prioritisation Matrix**

Occurrence	Certain Constantly in normal conditions  Likely Intermittent in normal conditions e.g. monthly or weekly	3				
l ikelihood of occurrence	Occasional Possibly may occur e.g. annually. May be due to staff or equipment failure	2				
	Unlikely To occur, no evidence of occurring, extreme situations only	1				
	nences	Scale & Impact	Minimal reversible. Environment al impact Reversible in 1 month	Minor pollution. Short-term localised impact reversible in 1 year.	Moderate pollution. Short term implications not reversible in 1 year, complaints	Major pollution. Long-term global impacts Irreversible Impacts health/ toxic etc.
	consed	Legal/ Policy/ Other		Policy/ performance standard aspiration	Potential breach of regulations	Actual breach of regulations
			Potential for	Potential for	Potential for	D 4 41 14
	Severity of consequences	Business Issues Litigation/ clean-up costs	minimal loss (£s)	minor loss (£'s)	moderate loss (£'s)	Potential for major loss (£'s)

Having assigned a priority score for each environmental aspect and impact the following table suggests timeframes for managing different priority environmental aspects and impacts (actual timeframes should be agreed with process owners).

Risk	Action	Timeframe
High	Short Term	Within 2
riigii	SHOIL FEITH	months
Medium	Medium Term	Within 6
Mediaiii	ivieulum reim	months
Low	Long Term	1 year +

ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	SIGN	SIGNIFICANCE		RISK RATING	CURRENT CONTROLS	RISK RATING
			Policy	Legal	Other			
Office Cleaning by contractors	Use of chemicals and cleaning agents; Resource use - water	Water Pollution Resource Depletion Hazardous Waste	~	<b>✓</b>	<b>✓</b>	АЗ	Cleaning contract Visual Control Contractors Procedure / Inductions	А3
Buildings maintenance work by contractors	Controlled & Hazardous waste disposal & recycle	Controlled Waste	<b>✓</b>	~	<b>✓</b>	В3	Cleaning contract Visual Control Contractors Procedure / Inductions	А3
Buildings Heating	CO <sub>2</sub> emissions Due to inefficient insulation, heating systems & layout	Resource Depletion Air Pollution	<b>✓</b>	<b>✓</b>	<b>✓</b>	A4	Maintenance checks Awareness raising training and materials Visual Monitoring / O&Ts Heating thermostat	А3
Buildings Lighting	CO <sub>2</sub> emissions Electricity - Bulbs; fluorescent tubes; energy efficient bulbs	Resource Depletion	<b>✓</b>	<b>✓</b>	<b>✓</b>	В3	Light Censors Maintenance checks Awareness raising training and materials Visual Monitoring	А3
Buildings Water	Resource Use - Water	Resource Depletion	<b>✓</b>		<b>✓</b>	A4	Maintenance checks Awareness raising training and materials Visual Monitoring / O&Ts	А3
Buildings Chemical Use	Washing up liquid; soaps; air fresheners; screen cleaners; white board cleaners	Water Pollution Resource Depletion Hazardous Waste	<b>✓</b>	✓	✓	ВЗ	Awareness raising	A2
Paper Waste Management	Paper reused, and recycled Small amount to Landfill	Resource Depletion Controlled Waste RD(+ve); CW	~	<b>✓</b>	<b>✓</b>	ВЗ	General Training Awareness Raising Monitoring records Waste Stream Schedule / Re- Cycle	A1
Office Waste Management	Glass, Plastic Composting Cans Cardboard	Resource Depletion Controlled Waste RD(+ve); CW	<b>✓</b>	<b>✓</b>	<b>✓</b>	C2	General Training Awareness Raising Monitoring records Waste Stream Schedule / Re- Cycle	B1
Generation of waste	General Refuse to Landfill	Controlled Waste	<b>✓</b>	<b>✓</b>	<b>✓</b>	В4	Waste Management Procedure Awareness Raising	А3
Use of electrical and electronic equipment	Resource Use Material Use Electricity Consumption Computers, Display Screens, Printers, Heaters, Faxes, Kitchen Appliances	Resource Depletion Statutory Nuisance	<b>✓</b>	<b>√</b>	<b>√</b>	B4	General Training Awareness Raising for energy usage Monitoring records	В3
Disposal of electrical and electronic equipment	Solid and Hazardous materials Packing	Hazardous Waste	<b>✓</b>	<b>✓</b>	✓	B2	Recycle Re-use WEEE Regulations	B2
General training - induction process. The need to include environmental considerations	Influence indirectly upon environmental performance via the behaviour of staff	ALL	✓		<b>✓</b>	B2	Training procedures	A1

ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	SIGN	SIGNIFICANCE		RISK RATING	CURRENT CONTROLS	RISK RATING
			Policy	Legal	Other			
Storage of chemicals	Hazardous materials and health and safety issue. Breach of containment and spills could cause lead to pollution of land and local watercourses and groundwater.	Hazardous Waste Land Contamination Water Pollution	<b>√</b>	<b>✓</b>	<b>✓</b>	С3	H&S procedures Use of Chemicals Procedure COSHH Assessments Workplace Instructions	B2
Travel for work purposes	Use of Public Transport Trains & Cycle/Walk. CO <sub>2</sub>	Resource Depletion Air Pollution Statutory Nuisance RD(+ve); AP; SN; RD	✓		<b>✓</b>	B4	T&S rates. General awareness raising materials/ greening newsletter and bulletins etc.	ВЗ
Arrangement of Meetings and Training	Use of Phone Conferencing Unnecessary travel for meetings & training	Resource Depletion Air Pollution Statutory Nuisance	✓		<b>✓</b>	АЗ	General awareness raising materials/ greening newsletter and bulletins etc.	A2
Operating site plant	Noise emissions from moving plant. CO <sub>2</sub> emissions. Dust emissions from moving plant across site.	Resource Depletion Air Pollution Statutory Nuisance	<b>√</b>	<b>✓</b>	<b>✓</b>	C4	Dust Suppression with Water Speed Restriction Plant engines are turned off when not required and not ticking over.	C2
Vehicles, engines, Machines, boilers & compressors	Depletion of resources and emission of pollutants	Resource Depletion Air Pollution Statutory Nuisance	<b>√</b>	<b>✓</b>	<b>✓</b>	В3	Maintenance routines	B2
Water use Vehicle and plant wash waters	Water use Potential pollution to local water courses and groundwater	Resource Depletion Water Pollution	<b>√</b>	<b>✓</b>	<b>✓</b>	C3	Consent to Discharge Maintenance checks Greening awareness raising training and materials Monitoring records Water management procedure	C1
Site drainage & Septic tanks	Potential pollution to local water courses	Water Pollution	<b>✓</b>	<b>✓</b>	<b>✓</b>	C2	3 Way Interceptor including maintenance checks Consent to Discharge.	C1
Fuel and oil storage	Spills and accidents during fuelling and refuelling could lead to pollution of land and local watercourses and groundwater	Water Pollution Land Contamination	<b>√</b>	<b>✓</b>	<b>✓</b>	С3	Including maintenance checks Workplace Instructions Use of Chemicals Procedure	C1
Chemicals storage	Breach of containment and spills could cause lead to pollution of land and local watercourses and groundwater	Water Pollution Land Contamination	<b>✓</b>	<b>✓</b>	<b>✓</b>	C4	including maintenance checks Workplace Instructions Use of Chemicals Procedure	C1
Storage and Disposal of Hazardous Waste	Electrical goods storage & disposal. Hazardous material storage & disposal.	Hazardous Waste Water Pollution Land Contamination	<b>√</b>	<b>✓</b>	<b>✓</b>	C4	Recycle & Re-use EA exemption registrations Disposal using Specialist Waste Contractors	C1
Removal, Handling & Disposal of Notifiable & Non- Notifiable Asbestos Containing Material		Hazardous Waste Air & Water Pollution	<b>√</b>	<b>√</b>	<b>√</b>	B1	Asbestos removal area sealed Area Smoke tested prior to works Fibre Monitoring Competent operatives & Supervision Waste Double bagged and Labelled	B1

ACTIVITY	ENVIRONMENTAL ASPECT	ENVIRONMENTAL IMPACT	SIGNIFICANCE		SIGNIFICANCE		SIGNIFICANCE		CURRENT CONTROLS	RISK RATING
			Policy	Legal	Other					
							Licensed Carriers & Transfer Stations			
Removal, Handling & Disposal of MMMF	Release of Fibres into air and water	Hazardous Waste Air & Water Pollution	<b>√</b>	<b>√</b>	<b>√</b>	B1	Wetting Fibre before removal Designating Contaminated Areas Fibre Materials wrapped when not in use Exhaust ventilation Licensed Carriers & Transfer Stations	B1		
Oxy-Propane Cutting Lead Coated & Galvanised Metal Work	Emission of Hazardous Fumes	Statutory Nuisance Air Pollution	<b>√</b>	<b>√</b>	<b>√</b>	A2	Toolbox Talk Competent operatives & Supervision Work Area Ventilation Risk Assessments Mechanical Techniques used when Possible	B1		
Demolition of Cooling Towers / Large Central Air Conditioning Systems	Release of Legionella Dust Emissions Noise	Statutory Nuisance Air & Water Pollution	<b>√</b>	<b>✓</b>	<b>✓</b>	B2	Risk Assessments Toolbox Talk Chlorine / Chlorine Dioxide Copper-Silver Ionisation Thermal Eradication	B1		
Erecting / Dismantling Scaffolding	Noise from handling materials	Statutory Nuisance	<b>√</b>	<b>✓</b>	✓	АЗ	Minimise Manual Handling Convey materials by mechanical means Pre-Plan work to consider adjacent areas Risk Assessments	A2		
Conventional Soft Strip & Demolition Works	Dust Emissions Noise Emissions Vibration	Statutory Nuisance Air & Water Pollution Resource Depletion Controlled Waste Hazardous Waste Land Contamination	✓	<b>✓</b>	<b>√</b>	В3	Dust Suppression with Water D/N/V Monitoring Screen Demolition Area Risk Assessments Impact Mats Work at Designated Times	B2		



### 3) Managing the Site Environmental Impacts

The following provides details how the identified site Impacts will be managed on site by the John F Hunts' Management Team.

A supporting document "150 Holborn – Environmental Monitoring Plan\_Rev 1" is to be submitted with this application and details the monitoring regime for the project

The visiting Group Safety & Environmental Manager will also assess the implemented impact control measures as part of his regular site safety inspections.

All employed sub-contractors for this project will be advised of the contents of this Environmental Management Plan and will be required to ensure compliance with its contents, and sign up to the requirements of John F Hunt Environmental Management policy.

#### Site Parking

There will be no parking on site, the use of public transport will be encouraged to all site operatives and project management.

There will be special arrangements for the transportation of the crane to be used on site and if required, any additional large excavators. This will be planned following discussions with the Metropolitan Police and Local Authority.

- All staff and visitors will be encouraged to use public transport.
- Contractors will be encouraged to use public transport or use crew buses.
- There will be no waiting up areas for site vehicles in the road around the site.
- Whilst there is a limited amount of space within the site boundary, it is anticipated
  that vehicles coming to site will be controlled by a relevant logistics manager and
  will have specific time slots booked that they must ensure they keep. It will then
  be down to the delivery/waste away driver and company to ensure they arrive at
  site at the specific time.
- Most vehicles will be fitted with an in-cab communication system which will aid the control of vehicle movements to and from site.

#### Getting to Site

All site operatives, subcontractors and visitors will be advised to attend the site entrance to the site. A summary of public transport modes is described below.

#### Underground:

Station	Line	Distance (Miles)	Time to site (Walk)
Chancery Lane	Central	0.1	2 minutes

#### Bus:

Street	Bus	Distance (Miles)	Time to site (Walk)
A40	8	0.1	2 minutes
A40	25	0.1	2 minutes
A40	521	0.1	2 minutes



#### Security on Site

To secure the site, security cabins and entry control system controlling access will be established and operated at all times

- Only authorised persons will be allowed on site.
- A Site Risk Assessment will be produced which will detail how security will be managed on the site.
- Any person identifying unauthorised personnel on-site should contact the Site Manager who will take appropriate action and ensure the unauthorised person leaves the site safely.
- All entry and exit points will be manned during operational hours, and any access/egress point not in use will remain locked.
- Provisions of alarms will follow HSE requirements and comply with BS EN 50131
   1-3 as appropriate

#### Gates and hoarding

Gates in the fencing or hoarding will, as far as is practicable, be positioned and constructed to minimise vehicle noise impacting on noise sensitive buildings, either from the worksite direct or from plant entering and leaving the site.

Gates will be constructed to allow a minimum clear opening of 4.5m and should swing open into the site. Details of gates should be agreed with Camden Council Network Management and/or Highways Licensing teams.

All gates will be controlled to give the minimum amount of time open for passage of vehicles to minimise plant and vehicle noise impacts on the locality.

Access to the site will be situated to ensure minimum disturbance to occupants of noise or dust sensitive premises e.g. schools, care homes, hospitals, residences etc., from vehicles entering or leaving the site.

The hoarding will be set at 2.4m high and will be installed so that it does not reduce the effective width of the adjacent footways and will be licenced and notified by Camden Council.

#### Health and Safety on Site

John F Hunt has extremely high standards in regard to Health and Safety and it will be the number one priority on the project for both operatives on site and third parties.

John F Hunt 's H&S inspectors will visit the site at regular intervals to ensure high standards are being maintained and to score the site and circulate reports that are read at Director Level.

Public protection is a key requirement that will be considered for all demolition activities. This is reviewed on a daily basis and at weekly H&S meetings.

Barriers, platforms and hoardings will be erected, adapted and maintained throughout the demolition phase to completely segregate the public from demolition activities. The solid hoarding will be installed around the perimeter of the site at ground level and remain throughout the project.



#### Air Quality Management

As the location of the site lies within the London Borough of Camden "Air Quality Management Area" any emissions of nuisance dust and fine particulates emissions are to be adequately controlled and kept within acceptable limits

Therefore, having a potential impact on the local environment, the air quality relating to nuisance dusts and airborne particulates from the demolition works and operating plant will be continuously monitored for the duration of the project. With those air quality levels being monitored by installed continuous operation dust monitoring data loggers placed at various pre-determined locations around the site.

The monitoring will measure:

- Dust emissions from the ongoing demolition processes
- Vehicle exhaust emissions from the operational demolition plant
- Exhaust emissions from vehicles accessing and egressing the site

Baseline air quality monitoring will be undertaken by John F Hunt Environmental Manager who will monitor the equipment being used and shall collect and collate all recorded results which will be issued to both Site management teams

All works will be compliant with the Greater London Authority (GLA) Guidance 'The Control of Dust and Emissions during Construction and Demolition' Supplementary Planning Guidance (2014) and Camden's Minimum Requirements for Construction

# NRMM (Non-Road Mobile Machinery)

- 10.1 The PM shall register the site on the NRMM register if plant used on the development is of net power between 37kW and 560kW. <a href="https://nrmm.london/user-nrmm/register">https://nrmm.london/user-nrmm/register</a>
- 10.2 Non-road mobile machinery (NRMM) is defined as any mobile machine, item of transportable industrial equipment, or vehicle with or without bodywork that is:
  - Not intended for carrying passengers or goods on the road
  - Installed with a combustion engine either an internal spark ignition (SI) petrol engine, or a compression ignition diesel engine.

Examples of non-road mobile machinery include, but are not limited to:

- garden equipment, such as hedge trimmers and hand-held chainsaws
- generators
- bulldozers
- pumps
- construction machinery
- industrial trucks
- fork lifts
- mobile cranes
- 10.3 The classification of a 'development' is within the Greater London area or within the Central Activity Zone or Canary Wharf following the criteria of residential developments of 10 dwellings or more, or, where the number is not given, 0.5 ha or more and for all other uses 1000 m<sup>2</sup> or 1 ha of floor space.
- 10.4 The PM shall contact the company supplying the equipment to ensure that plant is of Stage IIIA of EU Directive 97/68/EC for Major Development Site within Greater London



and Stage IIIB of EU Directive 97/68/EC for any site within the Central Activity Zone or Canary Wharf.

Further information can be obtained from <a href="https://nrmm.london/">https://nrmm.london/</a>

#### Air Quality Control Measures

To ensure the previously described impacts are minimised the following control measures will be implemented during the demolition project:

- Those demolition work areas generating dust will be liberally damped down by the controlled use of fire hose supplied fine water sprays
- All demolition waste lorries will be sheeted over prior to leaving site
- Any demolition waste stockpiles will be damped down during any dry dusty days
- Where required site routes around the demolition areas and traffic routes that become dusty will be damped down by water sprays supplied from towed water bowsers.
- Wheel washing facilities will be fitted by the site exit to reduce the dirt and dust from leaving site.
- All site plant and waste collection lorries engines will be maintained in a fully serviced condition to ensure there are no smoke emitting exhaust pipes
- To minimise the emission of exhaust particulates all site plant will operate on Low Sulphur diesel fuel, and all diesel-powered road vehicles and waste lorries will be required to provide confirmation of the use of commercially available Low Sulphur diesel and be fitted with catalytic converters and are fitted with Euro Group classification diesel engines
- The movement of all commercial vehicles particularly waste lorries to and from the site will be pre- planned to prevent unnecessary vehicle movements
- All contained refrigerant gases or other hazardous substances having an adverse impact will be removed by a specialist licensed sub-contractor for disposal in accordance with the hazardous waste regulations, at no time will venting to atmosphere of such materials be allowed
- At no time will substances or chemicals be used on site which are likely to produce offensive odours
- At no time will the burning of any demolition materials be allowed on site
- All Fibrous asbestos containing materials will be removed under fully controlled conditions within constructed containments by a licensed asbestos removal contractor
- All Firmly Bonded asbestos containing materials including asbestos cement products will be removed in accordance with the HSE Asbestos Essentials Tasks Manual. The Asbestos Cement Sheeting removal will also be in accordance with HSE Guidance HSG 189/2 Working with Asbestos Cement



To establish any potential asbestos fibres in air release during the asbestos removal works a UKAS accredited laboratory will be employed to carry out regular spot check background and personnel asbestos fibre in air monitoring with all readings recorded.

All asbestos containing materials will be removed in accordance with developed Method Statements and Risk Assessments.

# Noise Management

Due to the sensitivity of the sites location site noise-monitoring will be undertaken for the duration of the project. With the noise levels being monitored by installed continuous operation noise monitoring data loggers placed in predetermined locations around the site boundary.

Spot noise levels will be taken on a regular basis by the visiting company Environmental manager, or appointed representatives, using hand held noise monitoring equipment at selected locations around the site where various items of plant are working.

The noise level assessments will include:

- Noise emissions from the individual demolition site processes
- Noise levels from operated demolition plant and plant moving around the site
- Noise emissions from traffic accessing and egressing the work site

Baseline noise monitoring will be undertaken by John F Hunt Environmental Manager who will monitor the equipment being used and shall collect and collate all recorded results which will be issued to both Site management teams

# Noise Control Measures

To ensure the previously described impacts are kept to a minimum the following control measures will be implemented for the duration of the project:

- All demolition works will be undertaken by plant using 'quiet' hydraulic powered demolition pulverising attachments thus minimising the use of percussive impact breakers
- To lessen noise migration from the site the site boundary will be enclosed by 2.4metre high erected hoarding installed by the John F Hunt. Additional noise barrier will be utilised if required.
- Each section of the project will be planned to ensure all noisy working requirements are identified along with the timescales so such information can be advised to all concerned parties. There will be no site working during any anti-social hours
- The use of fully serviced plant with fully operational exhaust systems
- Ensuring all plant engine covers are kept closed at all times
- All site plant not in use will be shut down and not left idling on site
- All provided site generator plant will be of the new 'whisper' operational type
- The shouting out of instructions on site will be strictly forbidden, all site management and supervisors will be issued with site communication radios



- There will be no noisy working during any 'anti-social' hours or hours determined by the contract or in liaison with the London Borough of Camden Environmental Protection Team
- The playing of radios etc on site will be strictly forbidden at all times
- The sounding of vehicle hooters on site or in any adjacent street will be strictly forbidden at all times
- No commercial vehicles will be allowed to park in the adjacent streets waiting for access to the site, particularly with engines left 'ticking over'
- Where possible all site plant will be effectively silenced and located in such areas of the site so as to cause the minimum amount of noise migration to areas beyond the site boundary.
- Maximum noise generation levels will be determined for each major item of plant from such information as supplied by manufacturers or company noise monitoring records. This will enable the potential level of noise generation to be anticipated.
- A full noise level management programme will be developed in liaison with the London Borough of Camden Environmental Protection Team
- Where appropriate to minimise noise emissions from within the building work areas all glazing will remain in place for as long as possible
- There will be no site activities or plant engines started or lorry movements to and from the site made before 8am and not after 6pm
- All plant deliveries and collections plus all waste management requirements will be coordinated to ensure the noise impact from all such vehicle's movements on the community is kept to a minimum and is within agreed times. This will be particularly relevant to the unloading and collection heavy plant.

#### Vibration Management

To ensure the effects of ground vibration are minimised to lessen the impact on site neighbours a site vibration-monitoring scheme will be implemented for the duration of the project. With the vibration levels being monitored by installed continuous operation vibration monitoring data loggers placed in various locations around the site boundary.

Such vibration level assessments will include:

- Falling demolition debris
- Lorries being loaded with demolition wastes
- Working demolition excavators

Baseline vibration monitoring will be undertaken by John F Hunt Environmental Manager who will monitor the equipment being used and shall collect and collate all recorded results which will be issued to both Site management teams

#### **Vibration Control Measures**

To ensure these impacts are kept to a minimum, the following control measures will be implemented for the duration of this demolition project:



- Prior to the demolition commencing, where required debris pads can be constructed around the work areas to enable rubble to drop onto the pad, and not onto any slab which will act as a conductor of vibration to many adjacent areas.
- Where achievable all operating demolition plant e.g. excavators will operate standing on constructed debris pads
- No demolition materials will be allowed to fall from any height which may result in the generation of vibration
- All waste lorries will be loaded by excavators operated by competent plant operators with the debris placed into the vehicle and not dropped in

If required vibration monitoring will be implemented by the employed environmental consultants on selected adjacent properties, to establish any potential risk, particularly prior to, during and after demolition. The Site Demolition Manager will monitor the general day-by-day vibration caused by the works.

To determine any potential adverse effect of any generated vibration on structures where required prior to the demolition project commencing a Structural Condition Survey will be undertaken by appointed engineers on all adjacent buildings particularly those which have been identified as listed.

Then on completion of the project a Post Demolition Structural Condition Survey will be undertaken on the same properties to identify any structural defects, which may have occurred.

#### Monitoring Management

The process of monitoring the air quality, noise and vibration equipment, and for the collection of that data will be undertaken by the visiting Company Environmental Manager. Copies of the relevant data will be circulated to all interested parties as determined by the Project Management team.

The location of these monitors will be placed in relation to the high risk areas of site and depending on the closest sensitive receptor. Further details will be laid out in a Site Environmental Monitoring Plan using noise mapping software to identify high risk areas.

#### Liquids & Water Management

To eliminate the risk of any potential ground, water course or drainage contamination from the various liquids which are used on site and from generated effluents the following control measures will be implemented on site.

#### Liquids & Water Control Measures

 All diesel fuel for the site plant will be stored on site within double skinned fuel bowsers located at predetermined points on site for easy access by plant but away from any drainage access point. The refuelling lines will be fitted with automatic shut off devices and unattended refuelling will not be allowed at any time. Lorries and other vehicles normally used on public roads will not be refuelled on site.

The plant refuelling areas will be on a hard stand area and have a quantity of absorbent materials available in case of any diesel spillage, which will be cleaned up immediately.

- To assist in the clearing up of any spillage such as diesel or oil a number of spill kits will be available on site at the most appropriate location. Also, where required drip trays will be placed under any item of plant which has a potential for leaking
- Other items requiring storage on site such as hydraulic oils etc. will be in the appropriate storage drums stored in a provided secure container or bunded area located at the appropriate position within the lower basement areas
- All site welfare facilities effluent and sewage discharge will be via connections to the public drainage system.
- All wastewater from the site welfare facilities shall flow through fixed connections to the appropriate drains. At no time will any effluent be allowed to discharge directly onto the ground.
- All active drainage points within and adjacent to the site will be clearly identified and where necessary a means of water filtration installed around them.
- All waste water from the on-site asbestos personnel de-contamination units will pass through installed propriety waste water filters before entering the drainage system
- All town main water requirements for the site facilities will be measured through water meter readings. For on-site water requirements John F Hunt will use mains water where possible and install water meters to measure water usage.
- At no time will any dust control water sprays be allowed to generate a flow of runoff water. All such water spray operations will be controlled and managed by appointed site personnel in attendance at all times.
- Demolition site damping down water run-off and all other wastewaters will be disposed of in accordance with the requirements of the Environmental Agency and the London Borough of Camden
- John F Hunt will identify then regularly inspect all on-site drainage systems and those adjacent to the site boundary, and will ensure that they are maintained in an efficient state of repair and remain free of contamination and are not providing a potential means of rodent access.
- A specialist waste contractor will be employed to dispose of any hazardous liquid wastes found on site and disposed of in accordance with those regulations
- In accordance with the oil storage regulations any storage tanks proposed to be used on site and containing more than 200 Litres of oil etc. will:
  - Be stored within an oil tight constructed bund area capable of retaining the full contents of the tank plus 10% in an emergency
  - Have all valves lockable
  - Have a working contents gauge on it
  - Have contents name and capacity painted on it

### **Ground Contamination**

To minimise the risk of ground contamination on site the following control measures will be implemented which will be actioned by designated site personnel using liquid



absorbent materials such as granules and fine sand, which will be stored at a designated location on site. All such wastes from clearing a spillage incident will be placed into the appropriate waste container such as an oil drum which will then be removed from site for disposal as Hazardous Waste.

To ensure ground contamination is kept at a minimum the following standards will be actioned:

- All diesel storage and refuelling areas will be on a hard stand which will be covered in absorbent granules and have their own fire points
- An area on site will be designated the plant service and maintenance area where it will be covered in absorbent granules
- Any liquid escape or spillage such as an oil leak will be cleaned up immediately by the designated site personnel acting as a site spillage team
- All standing plant will have drip trays placed underneath them

To ensure that ground contamination is kept at a minimum a plant service and repair area will be allocated on an easily accessible section of hard stand large enough to accept all sizes of site plant and visiting maintenance vehicles.

To minimise the risk of ground contamination all plant operators will be required to clean up any small fuel or oil spillage immediately

For any risk of ground contamination on site from a significant fuel or oil spillage the following control measures will be implemented by a designated Site Spillage Team who will use liquid absorbent materials such as granules and fine sand, which will be stored at a designated location on site.

In the event of a significant fuel or oil spillage the following actions will be implemented

- The incident will be reported immediately to the Site Project Manager
- The Site Project Manager will notify his Site Spillage team who will then collect all the required materials from the designated storage area, load into a site van and go to the spillage area
- They will then implement measures to initially prevent the spread of the spillage. Particularly to any drainage point. Then implement measures to clear the spillage.
- All collected waste materials will then be placed into the appropriate waste receptacles such as oil drums for disposal off site as hazardous wastes
- All such incidents will be recorded on a Site Incident Report a copy of which will be forwarded to John F Hunt Group Safety and Environmental Manager.

#### **Ground Remediation**

The requirements of the remediation works for this project are still to be finalised, but John F Hunt will provide all required competent resources and plant to achieve the requirements of this category of works. All the ground remediation works will be carried out in accordance with the procedures detailed within the Environmental Management Policy

### **Unexploded Ordnance**

Due to a significant amount of wartime bombing the site suffered, the potential for finding Unexploded Ordnance (UXOs) has to be treated as a real threat.

Therefore, the following needs to be adhered to.

Based upon information supplied by the Client or from other sources (war time records), if any area on the site is suspected to contain UXOs, the following procedures need to be implemented via a written Risk Assessment:

- 1. Detailed plans of the ground areas shall be obtained or produced with those plans grid referenced.
- 2. Prior to commencing ground works, the whole work area shall have been surveyed by specialist engineers using ground radar techniques to detect the potential location of all ordnance risks on site, which when identified are then clearly marked on a squared grid line site ground survey. This site survey shall then detail the level of ordnance risks within each of those squares and form the plan of remediation.
- 3. The high level of ordnance risks locations on site shall not only be marked on a survey but also clearly indicated out on site by a flag system.
- 4. Prior to any work commencing on site, every person working on site including site management shall be provided with a safety talk by the MOD bomb disposal facility or other competent persons, who shall provide information on procedures for dealing with ordnance risks found on site. All such procedures shall then be recorded and issued to every person on site and displayed within all the appropriate site facilities.
- 5. Any area where Unexploded Ordnance or Bombs are discovered shall be fully cordoned off, all work on site shall stop and site management shall inform the MOD bomb disposal facility. No further work on site shall progress until it has been confirmed safe to proceed by the MOD bomb disposal facility.

#### Visual Intrusions

To ensure the impact of visual intrusion on adjacent areas is controlled the following control measures will be implemented

- John F Hunt will ensure that the lighting of the site is kept at the minimum luminosity necessary for adequate security and safety. In addition, the lighting shall be located and directed such that it does not cause undue intrusion to adjacent properties.
- When the site is closed all unnecessary site lighting will be turned off and only adequate security lighting will be maintained
- The site will be made less intrusive by the erection of security hoarding around the whole perimeter of the site. The hoarding will then be painted in a colour scheme by John F Hunt
- The maintenance of all road areas adjacent to the site particularly at the site entrances will be carried out by mechanical and manual means on a daily basis
- If required particularly during wet days all waste lorries leaving site will egress the site via a installed wheel cleaning system installed at that egress point
- All waste lorries will be required to be maintained by their operatives in a clean and roadworthy condition at all times



#### Site Traffic and Transportation Management

#### **Road Transportation**

To lessen the impact of site traffic and their contribution to carbon emissions from vehicle exhaust gases this impact will be controlled by the following measures

- John F Hunt, in consultation with the London Borough of Camden shall prior to commencing work on site agree the designated traffic routes, which are to be used by John F Hunt and its sub-contractors, this traffic route will involve al vehicles accessing site via the A40, turning off this road into Brooke Street. This will also act as the site egress traffic route for all vehicles.
- The designated traffic routes to and from site and to and from the originating and final locations are to be determined using the following philosophy:
  - The avoidance of using residential roads particularly those with sensitive areas such as schools, hospitals, community centres etc
  - Avoiding any school starting and finishing times
  - The routing to the major A roads as quickly as possible
  - Avoiding routes through any residential areas

The nominated route to and from site will be advised in writing to all interested parties particularly the waste lorry companies

- The delivery of all materials, plant and equipment will be pre-planned and to designated times of the day to minimise the impact on the local area from the continuous accessing and egressing of the site by vehicles. Any deliveries and movements of large vehicles will be restricted to outside of peak times to avoid any significant impact on the local traffic.
- All goods deliveries will be to a designated area on site where all vehicles will be unloaded and the materials taken to the appropriate storage area immediately
- To ensure an efficient management of, and minimising the number of vehicles coming
  to and from site, where required in liaison with site management requirements a
  designated management representative will be appointed to act as the Site Transport
  Co-ordinator. Who will manage all the waste removal collections and documentation,
  and for the efficient ordering and delivery of site consumables, all of which will be at
  agreed appointed times
- All such vehicle movements will be under the strict control of appointed Banksmen and this system will be subject to a site speed limit of 5mph
- To further lessen unnecessary traffic movements, it is proposed the site will employ
  its own site van to undertake multi collection rounds from suppliers of all required
  consumables etc, many of these suppliers being local businesses.
- To lessen the impact of various delivery vehicles movements to the site, the site has
  established with its two nearest John F Hunt Hire Centres that they become resource
  centres for the site and will supply all plant, equipment and consumables as required
  and delivered to site as multi item loads. Again, to lessen vehicle movements all such
  requirements will also be pre-planned and coordinated by the appointed person
- The times of the movement of the required mechanical plant to and from the site will be dependent upon constraints placed by the local traffic police, who may be required

escort such large loads, and such escort times will normally fall between 7pm and 7am. Upon confirmation of any escorted load being moved all relevant persons likely to be affected will be advised of the potential for possible short-term disruption. All such movements will also be in arrangement with the London Borough of Camden Environmental Protection Team

- The site management will check the use of the designated routes by waste vehicles leaving site.
- No vehicles will be allowed to park in any of the adjacent roads particularly with engines left ticking over, and there will be no parking within the constraints of the site.
- Due to site restrictions a designated waiting area will be identified where commercial vehicles such as waste collection lorries can be parked waiting to be called to the site via radio communications or mobile telephone by the site transport co-ordinator
- All waste collection lorries will, where possible, will come from one company who will
  designate a suitable number of lorries with the same drivers to enable them to be
  familiar with all site requirements and the determined haul routes to their disposal
  destinations
- All site operatives, subcontractors and visitors will be instructed to attend the site via the easily accessible modes of public transport

A site logistics plan is included on the last page of this document, highlighting the traffic routes for site.

#### Rodent Infestation and Pest Controls

To minimise the adverse impacts from pests and rodents the following control measures will be implemented on site in the following order

- All drainage systems and access points will be kept secure to prevent rodent access
- All generated rubbish particularly food waste will be cleared as it is generated and placed into secure containers and removed off site for disposal on a continuous basis
- ❖ A high level of good housekeeping will be maintained on site and in all facilities
- Site rules will be implemented to prevent the feeding of such pests as pigeons and seagulls
- All food stuffs brought on site will be within storage containers
- Where all other control measures have been actioned then pest control management will be implemented on site by a reputable pest control company

# Pigeon Waste

It is anticipated that a small number of the buildings on site will require prior to demolition, decontamination of pigeon waste by the following procedures which will be recorded in a developed risk assessment:

- ➤ Operatives wearing white coveralls, Wellington boots, and respiratory protection fitted with P3 filters will initial spray the contaminated areas with bleach mixed with water on a 1:1 basis from hand held sprays
- These sprayed areas will then be left for a number of hours
- > Then operatives using shovels etc. will remove the waste and put it into polythene waste bags which when full will be taped sealed



- As the waste is being removed the areas will again be sprayed with the bleach, and again at the end of the works
- No area will be swept as this will increase the risk of airborne pollution causing a respiratory risk
- Areas being decontaminated will have all windows and doors closed during the work

# Archaeology Attendance

If relevant all required assistance will be provided to any attending archaeologists who may wish to visit the site

# Potential Significant Environmental Impacts

A table of potential environmental effects relating to the demolition works is provided below.

Topic	Potential Environmental Effect
Transport	Increased traffic movement on and off site, however is minimised through set delivery times for certain vehicles
Cultural Heritage & Archaeology	n/a
Hydrology & Water Quality	Unless there are contaminants found in the ground source that may seep into the water table if contact is made with them, there will be very little to no impact on water quality. Water that may be contaminated from asbestos will be filtered to remove contaminants before disposal.
Townscape & Visual	There may be a visual impact on the surrounding area as the site will be surrounding by hoarding.
Noise & Vibration	Noise and vibration may be caused by vehicle movement and through other demolition works, John F Hunt works closely with the local authority and neighbours to ensure that complaints and impacts are minimised.
Local Air Quality	Dust may impact on the air quality of the surrounding area so dust suppression machines will be located on areas of the site that are under demolition to minimise the dust intake into the air.
Waste & Materials Management	Waste management on site will adhere to the waste hierarchy and attempt to either reuse materials on site or send for recycling at every possible opportunity. All waste vehicles will be inspected when leaving to ensure all is secure and is clean to prevent further pollution.
Contamination & Hazardous Substances	The removal of hazardous substances such as asbestos will be removed. Hazardous material will be disposed of and sent for landfill in contained waste carriages to minimise the risk of contaminating other areas.
Ecology & Nature Conservation	There will be minimal impact on the surrounding ecology and nature on site. Local trees that are to be removed will be done so via an arboriculture team and sent for recycling.



### 4) Community Relations

John F Hunt will ensure the effective liaison with the neighbouring properties, adjacent residents and local community by utilisation of such means as:

- Circulated newsletters and newsletters placed in information boxes located outside the site entrances – these will be sent on a monthly basis and/or when a significant change in working practices in likely to affect the local environment
- The closest receptors have been identified as;
  - The Hay St Pancras Luxury Apt Grays Inn Road
  - Robert Dyas High Holborn
  - Grays Inn Road Residential Properties
  - Brooke Street Residential Properties
  - Argos Grays Inn Road
  - Brooke Street Commercial Offices (North of site)
- Site information meetings between company site management and representatives from all adjacent neighbours and other interested parties
- ❖ When appropriate undertaking in small numbers site tours of the site
- Information boards mounted at the site entrances which will provide details of the following information
  - Clients Details
  - Principle Contractors details
  - Nature and duration of project.
  - Principal milestones of the project
  - Site operating times
  - Site management names and contact details
- Site contact details will be available so that any complaints can be communicated, this will then be dealt with according to our John F Hunt Complaints Procedure

There will be no deliveries or collections to the site, and the starting of site plant during peal times. Where any exception is liable to occur such as the movement of heavy plant this will be in accordance with pre-planned times.

There will be no over sailing of adjacent properties by the site craneage

John F Hunt will ensure a level of courtesy is maintained by all site personnel at all times to all local residents, site visitors and the passing public particularly females.

This will also relate to any member of the ethnic communities as any form of racial discrimination, verbal abuse, or incitement will be viewed as a serious breach of this company's policies

John F Hunt will ensure that at no time will any site personnel will be allowed in any public area wearing tee shirts with offensive slogans on them

At no time will any site personnel be allowed to sit outside the site in any public area during working hours whilst wearing site clothing



John F Hunt will ensure that no site personnel will be allowed to leave site and in particular travel on public transport wearing site clothing. All site clothing shall be changed to domestic clothing prior to leaving site

All persons working on site will be advised that the highest priority relating to environmental impacts will be to maintain the quality of life to the highest level for all site neighbours and local community at all times

Any site person receiving a concern or complaint from adjacent properties or passing pedestrians shall refer the matter immediately to the site demolition manager who will record the fact and refer the matter to the management team who will then carry out an investigation. The site project manager will oversee all compliant investigation and the end results shall be recorded in the site diary,

As part of the environmental assessment of John F Hunt 's activities on site, considerations will also made of relevant London Borough of Camden Planning and Environmental requirements and any local resident concerns.

#### **Environmental Incident**

If an environmental incident occurs on site following actions will be implemented by the Project Management team

- ❖ The Site Management will be notified immediately, and dependent upon the type of incident notification will be issued to the relevant authority such as PLA, Environment Agency and London Borough of Camden Pollution Control
- Actions will be put in place to immediately control the incident and limit the adverse impacts of that incident
- ❖ The environmental incident will be recorded in the site diary and a Site Incident Report form completed
- John F Hunt Safety and Environment Manager shall be informed and provided with a copy of the Site Incident Report, who will then attend site
- ❖ A joint site investigation will then be implemented by the Safety and Environment Manager and Site Project Manager.
- As a result of the investigation where required the appropriate actions will be implemented
- Then those action will be monitored
- Then the incident will be recorded as closed out

# 5) Waste Management

#### **Introduction**

A waste management strategy will be developed for this project in accordance with the I.C.E. Demolition Protocol, this will allow the following to occur:-

- Improve environmental performance
- Meet legislation requirements
- Reduce waste disposal and its costs
- Maximise resources available
- Benefit clients BREEAM rating

The waste management strategy will have the aim to maximise secondary material use within the new construction of the site and within the construction industry and also to lessen the demand on primary resources so producing an increase in resources efficiency.

Therefore, considering the materials listed below a pre- demolition site audit will be undertaken to determine what materials can be reclaimed for reuse or recycling and their amounts which will then be developed into a spreadsheet to produce a "Demolition Recovery Index" (D.R.I) which will be provided to the Client for issue into his new build design considerations

A post demolition site audit will then be undertaken of the actual materials recovered and the Demolition Recovery Index Efficiency calculated

The materials that will be considered for the (D.R.I) will be: -

- Any mechanical and electrical plant and associated fixtures and fittings having a potential reuse value
- All soft strip fixtures and fittings having a reuse value such as doors, wood floors, wood panelling and door surrounds, sanitary ware, light fittings, light switches socket outlets, installed facilities such as kitchens etc
- Office Furniture and associated fixtures and fittings
- Structural timber
- Recoverable Glass
- Salvageable artefacts

For this Project the Demolition Materials Recovery Index will include the following headings to which will be recorded figures when estimating the Total Estimated tonnage. Then as the project nears completion the Actual Recovery tonnage will be recorded. By comparing the two this will then provide John F Hunt with a Demolition Recovery Index Efficiency Rating

# For this Project the Demolition Materials Recovery Index is

Material	Total Estimated Tonnage	Actual Recovered Tonnage	
Ferrous Scrap	200		
renous Scrap	200		
Soft Strip/Rubbish	90		
Concrete & Brick	9750		
Glass	1		
Plasterboard & Gypsum	1		
Timber	5		
TOTAL	10,047		



#### **Demolition Recovery Index Efficiency is 99%**

In addition to the recycling of generated demolition materials, additional recycling will be undertaken of the following materials generated from the management of the project: -

- Recycling of site hoarding materials
- Recycling of all packaging and containers
- Returning computer cartridges
- Returning of all pallets to original provider
- Collecting all waste paper, aluminium drink cans, glass bottles and plastic containers and placing them into their respective containers for recycling.

#### **Hazardous Wastes Management**

Where any hazardous waste is to be handled for disposal this shall be carried out in accordance with developed risk assessments, and where a potential hazardous waste cannot be identified then a waste management company or consultants will be employed to determine what the substance is, the required control measures for handling it, means of transportation and method of disposal

All identified hazardous wastes will be removed and placed into separate secure and sealed waste bins which will be located within their own area within the lower ground levels. Categories of hazardous waste will consist of:

- Asbestos containing materials
- Pigeon Waste
- Japanese Knotweed
- MMMF Insulation
- Fluorescent light tubes
- Waste electronic and electrical equipment
- Waste oils etc

A maximum of 80 cubic metres of Hazardous waste shall be stored on site at any one time

Any clinical waste or drug related debris will be collected in accordance with laid down company methods and placed into approved containers for transportation to an incinerator point.

The EPP sets out any procedures to deal with contamination if any issues were to arise in the future not previously identified. Therefore, if necessary all the workers on-site will be made aware of potential contamination issues on the site and will use best practice techniques during the demolition phase. The operation of demolition vehicles and the handling, use and storage of hazardous materials will be undertaken as follows:

- Construction vehicles and plant will be regularly maintained and supplied with spill kits and drip trays to reduce the risk of hydrocarbon contamination;
- Refueling would be undertaken in specified areas. Drip trays will be installed to collect leaks from diesel pumps;
- The handling, use and storage of hazardous materials will be undertaken in line with the Environment Agency's Pollution Prevention Guidelines (e.g. PPG2 Above Ground Oil Storage Tanks);
- Adequate bunded and secure areas with impervious walls and floors, with a capacity of 110% of substance volume, are to be provided for the temporary storage of fuel, oil and chemicals on site during construction;



- Development of site pollution control procedures in line with Environment Agency's Pollution Prevention Guidelines, and appropriate training for all demolition staff. Provision of spill containment equipment such as absorbent material on site; and
- Where possible, store all demolition and oil, fuel and diesel materials as far from the nearby water bodies and drainage as possible.

Hazardous materials already present on-site, or proposed to be used during the demolition works will be identified and an appropriate Control of Substances Hazardous to Health that any new substances hazardous to health are identified prior to being brought on to the site and that suitable arrangements are made for their storage, use and disposal.

#### Hazardous Waste Producer Code

The asbestos cement sheets will be classed as Hazardous Wastes, and as all other such wastes will be disposed of in accordance with the Hazardous Waste Regulations 2005. Therefore, the site will have to be registered with the Environmental Agency and a Waste Producer Code obtained

This code will be required to be placed on all Hazardous waste documentation

#### Materials Storage

Materials used in the demolition process such as fuel oil, chemicals, cleaning materials and paint have the potential to cause serious pollution. The Environment Agency's Pollution Prevention Guidance and other relevant guidance will be followed during the handling and storage of such materials.

Plant and equipment will be stored in areas which are less susceptible to possible pollution incidents, or on dedicated areas of hard standing. All static plant shall be placed with drip drays to prevent ground contamination as a result of oil spills and leaks.

Refueling of plant will occur in designated areas on an impermeable surface and away from any drains or watercourses. Appropriate numbers of spill kits will be available for use in the event of an accident. Refueling will always be carried out in a controlled manner with absorbent materials available to clean up any spillages. All deliveries on site will be monitored during delivery to prevent overfilling and to ensure that the product is delivered to the correct tank.

A bunded storage area will be located on-site and will be provided for the duration of the demolition period for the storage of oils, fuels, chemical and other hazardous demolition materials. The base and bund walls will be impermeable to the material stored and will be of adequate capacity.

Storage containers will be clearly labelled. Storage areas and containers will be protected against vandalism and unauthorised access. All containers on site will be adequately ventilated.

Leaking or empty oil drums will be removed from the site immediately and disposed of via a licensed waste disposal contractor.

Procedures will be set in place to respond to any emergency incidents which may occur on site. All appropriate staff will be trained and made aware of the spill contingency plan set in place. In the event of an incident the Environment Agency will be notified immediately;



#### Non- Hazardous Wastes Management

All non-hazardous wastes will be removed and placed into open waste bins which will be located within their own area within the lower ground basement level. Such non-hazardous wastes will consist of:

- All soft strip materials
- Fixtures and fittings
- Ferrous and non-ferrous materials
- Plaster board with a sulphate content of more than 10%
- All generated reinforced concrete waste
- Office furniture and carpeting

All generated demolition wastes will be sorted for reuse or recycling or disposal, and placed into their respective storage bins by mechanical excavators. Once full, waste Lorries from the registered waste hauliers will transport the wastes to a contracted recycling centre or nominated landfill site.

All asbestos containing materials will be placed into secure waste skips which will be transported by road

In accordance with the Environment Agency requirements concerning plasterboard disposal and recycling all on site clean plasterboard waste will be removed and placed into their own designated waste skips. This will then be transported to a plasterboard recycling facility known to John F Hunt

It is anticipated that a considerable number of tanks, other vessels and pipework will be insulated with manmade mineral fibre materials (MMMF) which is classified as an irritant. Therefore, based upon the parent body location and means of access the insulation will be removed prior to the demolition activity or alternatively when it's on the ground. With the removal being undertaken using controlled conditions applied by operatives wearing the required PPE and appropriate respiratory protection. All removed insulation will be placed into polythene bags and taped sealed and placed in the appropriate waste skips

# Waste Hauliers

The following licensed waste removal contractors will be employed for the removal and disposal of the identified category of wastes

		Waste Carrier			Disposal Site	
Waste Descriptio n:	<u>EWC</u>	<u>Name</u>	<u>Licence</u> <u>Number</u>	Expiry Date	<u>Name</u>	Licence Number / Exemption Ref.
Demolition Waste	170904	Burley Transport	CBDU143212	06/01/2020	7, Park Drive, Upminster, Essex, RM14 3AP	1
Canteen Waste	200108	Docklands Waste	CB/DU48210	06/06/2018	Docklands Waste, Thames Wharf, Dock Road, Silvertown E16 1AF	EAWML80784
Asbestos (non- notifiable)	170605	G. J Bowmer	CB/DU98031	02/04/2019	Fairview, Magpie Lane, Brentwood, Essex, CM13 3DT	SP3294NT/A0 01
Asbestos (non- notifiable)	170605	Windsor Waste	CB/DU63545	18/09/2018	Unit 29 Childerditch Industrial Estate Childerditch Hall Drive Little Warley Brentwood Essex CM13 3HD	/
Ferrous metals	160117	Camden Metals	CBDU 79006	15/05/2019	Camden Metals , 1 Ruby Triangle, London, SE15 1LG	EPR/LF0131N Z/A001
Non-ferrous metals	170407	Camden Metals	CBDU 79006	15/05/2019	Camden Metals , 1 Ruby Triangle, London, SE15 1LG	EPR/LF0131N Z/A001
Hard-core	170107	R.M.S	CBDU149396	09/01/2020	Sunshine Wharf, Bradfield Road, Canning Town, London E16 2AX	104575
Concrete	170101	R.M.S	CBDU149396	09/01/2020	Sunshine Wharf, Bradfield Road, Canning Town, London E16 2AX	104575
Iron	170405	Camden Metals	CBDU 79006	15/05/2019	Camden Metals , 1 Ruby Triangle, London, SE15 1LG	EPR/LF0131N Z/A001



# Waste Management Documentation

All Hazardous wastes will be disposed of in accordance with the Hazardous Waste Regulations Duty of Care Consignment Note procedures and removed by a licensed hazardous waste removal company for disposal at the appropriate licensed hazardous disposal site.

All non-hazardous wastes will be placed into open waste skips provided by designated waste hauliers. All non-hazardous wastes will be disposed off site at a designated licensed disposal site. Company waste transfer notes will be issued for each consignment called "Authenticated Receipts".

The management of all such documentation will be undertaken by the Environmental Manager working in liaison with the Site Project Manager

#### Records - Site Waste Management Plans

All waste information will be recorded on a Site Waste Management Plans which will assist in providing information for the End of Project Report and BREEAM requirements and as an aid for acting as a checklist so as to minimise the landfill destination of generated wastes and maximise their reclaim or recycle value.

This information will assist in producing such reports as detailing material tonnages being removed against energy usage which will assist John F Hunt in developing a strategy for reducing its carbon footprint

### Company Energy and Waste Minimisation

Despite John F Hunt having a priority towards reuse and recycling within the Environmental Management plan it also has a commitment towards energy and waste minimisation achieved by the following: -

#### Minimisation of Packaging

#### Achieved by:

- Purchasing in bulk e.g. site gases and diesel fuel. Thus, lessening the need for delivery vehicle movements which gives many benefits
- Encouraging suppliers to deliver bulk orders on pallets, seal wrapped, and not put into individual boxes
- Having orders delivered in returnable containers
- Where the above is not achievable, ensuring all such packaging as cardboard, paper, pallets etc are recovered for returning or recycling by being placed into the appropriate skips on site
- The reduction in postage by having the site office connected to the broadband system for e-mails and placing orders with Head Office and suppliers

### Minimisation of Energy and Water Consumption

The following procedures are included within the Environmental Management Plan and relate to every part of the site

- All processes and procedures to be examined to determine where and how energy is being consumed
- Then looking at setting objectives and targets to reduce energy consumption and produced waste



- Detailed assessments of the waste being produced and assess how that level can be reduced by continuous improvement in the setting of objectives and targets
- Keeping detailed records of any raw energy being consumed
- To train all site staff to be environmentally aware
- Use of low energy light bulbs

One of the major adverse impacts for this project will be the use of clean mains water for the management and reduction of airborne nuisance dusts and particulates from the:

- Demolition of reinforced concrete
- Loading lorries with dust hazard wastes
- · Controlling dust emissions from any stock piles of materials

### 6) Wildlife Protection

Prior to any work commencing a full ecological survey of the area and buildings will be undertaken to determine what wildlife does habitat these areas and if so the means of protection or movement required. If any protected species of animal or its habitation is discovered then that fact will be reported to English Nature for their advice and recommendations.

### 7) Environmental Training & Communication

The raising of environmental awareness is viewed as a crucial element in the appreciation and implementation of the EMP. This EMP will be distributed to members of the project team, including suppliers and subcontractors as necessary to ensure that environmental requirements are adequately communicated.

John F Hunt as Principal Contractor will be responsible for ensuring that all people on-site are provided with relevant information concerning environmental protection and will operate a system whereby all staff and operatives receive a site-specific safety and environmental induction prior to starting work on-site.

The training requirements of Company staff will be monitored via individual appraisals and through 4 weekly Health, Safety and Environmental Planning meetings. At these meetings the forthcoming operations will be discussed in detail, including the standard and level of training required of site operatives and subsequently the individual needs of the staff. Training records for staff will be held on a central database and made available through regional offices.

Induction for Vehicle Drivers will include:

- Road safety for public and site roads including speed restrictions and defensive driving;
- Site procedures including queuing and parking notably that there will be no queuing on public roads, and managed within the site boundary;
- Cyclist awareness video;
- Environmental issues and processes required for their minimisation, including noise and vehicle cleanliness leaving site; and
- Discussion on potential hazards and risk reduction.

All company personnel will be provided with Environmental awareness training by the following means



- Regular circulation of the relevant environmental information from Company Safety & Environment Manager obtained from such sources as Environment Agency Website
- Issue of Company Environmental Policy and induction talks on its contents
- Attending Environmental Awareness training provided by such resources as
  - Company Environmental Consultants
  - Environment Agency
- Site specific Induction Talks given by the Safety and Environment manager and the issue of this Environmental Management Plan
- Prior to each demolition work package commencing those employees and subcontractors involved in the works shall attend a safety talk given by site management which shall include the relevant environmental management requirements

## 8) Environmental Site Management

The responsibility for the successful site environmental management will be the ultimate responsibility of the John F Hunt Site Project Manager aided by his site Demolition Managers achieving the requirements of this Environmental Management Plan and John F Hunt Environmental Management Policy.

The John F Hunt Site Project Manager will be responsible for the daily management of all demolition environmental management documentation such as, noise, dust and vibration monitoring registers, wastes records, incident reports, information for the end of project report, and in the daily management of the Site Waste Management Plan. He will be aided by the visiting Environmental Manager who will attend site on a regular basis

At the end of the project the John F Hunt Site Project Manager will produce a company "End of Project Report" which will include all relevant safety and environmental information for the client's site safety file which will be issued to the CDM Coordinator

To ensure that all the requirements of this site Environmental Management Plan and Company Environmental Management and Asbestos Management Polices and compliance with legislation regular unannounced site safety and environmental inspections will be undertaken by John F Hunt Safety Manager and Environment Manager who at the end of site and document inspection will issue a report to the following personnel:

- Site Project Manager for any required actions
- Site Responsible Director for any required actions

From these site safety and environmental inspection reports John F Hunt Safety and Environment Manager will review these reports to determine whether any environmental issues are developing which need to be rectified by:

- Site management meetings
- Implementation of individual or groups of employees discussions
- Company employee or subcontractor site inductions or specific topic training
- Discussion at the formal Monthly Project progress and Safety and Environmental Management meetings



Discussion topic at John F Hunt Senior Management Meetings

In the Safety and Environmental Management of the project the following means of communication will take place

As part of John F Hunt Safety and Environment Manager site visits he will:

- Hold informal talks with all site employees discussing environmental issues
- Hold a Site Safety and Environmental meeting with John F Hunt Site Project Manager, Demolition Managers
- Formation of a Project Committee where John F Hunt and Subcontractor management representatives along with selected site employees attend to discuss all safety and environmental issues
- Carry out site inspections

# 9) Environmental Risk Management

John F Hunt will have all its Environmental risks associated with these works recorded within John F Hunt Environmental Management Risk Management Register. A copy of this register will be on site for these works. Opportunities for material reuse are identified within the Site Waste Management Plan during the pre-demolition audit. This audit will consider the life cycle use of any material on site to ensure the best route for its reuse or recycle.

# 10) Environmental Legislation

John F Hunt will undertake the environmental management of the project in accordance with the following environmental management legislation

- The Control of Pollution Act 1974
- The Environmental Protection Act 1990
- The Highways Act
- The Road Traffic Act
- The Control of Asbestos at Regulations 2012
- Construction (Design & Management) Regulations 2015
- Asbestos Essentials Task document
- HSG 189/2 Working with Asbestos Cement
- The Hazardous Waste Regulations 2005
- The Waste Electrical, Electronic Equipment Regulations
- The Control of Pollution (Oil Storage) Regulations 2001
- The Provision & Use of Work Equipment Regulations 1999
- The Control of Noise at Work Regulations 2005
- BS 5228 Noise & Vibration Control on Construction & Demolition sites
- BS 6187: 2011 Code of Practice for Demolition
- The Wildlife & Countryside Act 1981
- The Conservation (Natural Habitats) Regulations 1994
- London Councils "The Control of Dust and Emissions from Construction & Demolition Best Practice Guidance"
- Environmental Permitting (England and Wales) (Amendment) Regulations 2015
- GLA's 'The Control of Dust and Emissions during Construction and Demolition' Supplementary Planning Guidance (2014)
- IAQM's 'Guidance on Air Quality Monitoring in the Vicinity of Demolition and Construction Sites' (2012)

#### Sources of Information

The following sources of information have been consulted in the development of the EMP and should be used as reference documents;

- Environment Agency (no date), PPG1: General Guide to the Prevention of Pollution of Controlled Waters;
- Environment Agency (February 2004), PPG2: Above Ground Oil Storage Tanks;
- Environment Agency (no date), PPG5: Working in, Near or Liable to Affect Watercourses;
- Environment Agency (no date), PPG6: Working at Construction and Demolition Sites;
- Environment Agency (August 2004), PPG7: Refueling Facilities;
- Environment Agency (February 2004), PPG8: Safe Storage and Disposal of Used Oils:
- Environment Agency (no date), PPG13: High Pressure Water and Steam Cleaners;
- Environment Agency (February 2004), PPG21: Pollution Incident Response Planning;
- Methods on Land Affected by Contamination: Guidance on Pollution Prevention (NC/99/73);
- Environment Agency (2006), Consignment Notes: A Guide to the Hazardous Waste Regulations; and
- DEFRA (2006), Circular 01/2006 Environmental Protection Act 1990 Part 2A Contaminated Land.
- London Best Practice The control of dust and emissions from demolition and demolition
- BS 5228:2009 Noise and Vibration Control on construction and Open Sites, Part 1 "Noise" and Part 2 – "Vibration"
- Road Vehicles (Construction and Use) Regulations 1986 (as amended)
- BS 6187: 2011 Code of Practice for Demolition
- BS 5837: 2012 Trees in relation to design, demolition and construction.
   Recommendations
- BS 3998: 2010 Tree work, Recommendations



# 11) Relevant Contact Details

The following provides details of the relevant contacts for the project

Name	Contact Number		
John F Hunt Head Office	01375 366700		
John F Hunt Site office	07976 863453		
London Borough of Camden:	020 7974 4444		
• 24 Hour			
Environmental Dept			
Pest Control			
<ul> <li>Highways</li> </ul>			
Considerate Contractors     Scheme			
Environment Agency	01707632300		
Pollution Hotline	0800807060		
11 11 0 0 ( ) 5	2007 550 0400		
Health & Safety Executive	0207 556 2100		
Metropolitan Police	0207 230 1212		
monopolitan i onos	0201 200 1212		
Vibrock Consulting Limited	01773 711211		
English Nature	01733 45500		
Bat Conservation Society	0845 1300 228		
Thames Water (24 Hour)	0845 9200 800		
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