

ICE PROTOCOL STATEMENT

Fitzgerald House, Avondale Drive, Hayes, UB3 3PN.



For
Higgins Partnerships
Prepared By:



Principal Contractor
Person Responsible for Waste on Site
Person Completing this Form
Date

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INTRODUCTION

Higgins Partnerships requested Northeast Demolition UK Ltd to adopt and implement the ICE Demolition Protocol for the demolition of former Fitzgerald House, Avondale Drive, Hayes, UB3 3PN.

This document addresses the potential for reusing and recycling components and materials from the building(s) and aims to:

- Provide an understanding of the waste materials likely to arise from the demolition of the building in order to assist with the redevelopment of the Site Waste Management Plan (SWMP)
- Assist in the management of the materials removed from the building in line with the Waste Hierarchy, ie. Maximise reuse and recycling and minimise waste to landfill
- Provide evidence for environmental assessments such as BREEAM

This report contains estimations we have made on the anticipated tonnage of materials which may be recovered from the building(s) and assesses the target demolition recovery quantities for the materials which will be recycled or reclaimed as a result of the demolition works. It is then intended that the extent of materials which are recovered from the demolition process will be advised by the contractor.

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Demolition Works: Existing Structures

The site is made up of the following structures:

12 story, brick/concrete RC frame built flats.

The demolition works comprise of the following:

- Demolition of structures to ground slab level including full soft strip and asbestos removal.
- Removal of all concrete ground slabs/foundations.
- Crushing concrete/hardcore on site to 6F2 for reuse.

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Demolition Recovery

The demolition protocol requires the identification of arisings from the demolition works, their quantification and a target recovery factor / index to be calculated.

Basis for Quantities, Assumptions and Exclusions

The bill of quantities is based on the following information:

- Schedule of quantities of existing buildings.
- The ground slabs have been assumed as 200 mm thick
- Potential applications and any related issues for the reuse and recycling of the key materials in accordance with the waste hierarchy. NED use the UK Waste Hierarchy Chart as shown above.
- Opportunities for reuse and recycling within the same development: Circa 9000 tonnes of hardcore & concrete to be crushed to 6F2. Including Asbestos screen, chemical testing and grading.



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Opportunities and Identification for Reuse & Recycling

- Identification of local reprocesses or recyclers for recycling of materials: Rubbish will be taken to Westminster Waste, and Metal to All Scrap Metal, both transfer stations are approx 8 miles away from the site.
- Identification of overall recycling targets where appropriate – 98%
- Identification of reuse targets where appropriate – 98%
- Identification of overall landfill diversion rate for all key materials – 98%

The quantity of material produced by the demolition process has been calculated and is shown in Appendix A, these are only an estimate and we therefore anticipate slight change to quantities upon commencement of the works. It is however a requirement of the demolition contract for quantities of materials which are being reclaimed or recycled by the demolition contractor to be fully recorded, which means that a full and comprehensive waste data log will be provided on completion of the works.

Concrete arisings and non-concrete masonry from the demolished buildings will be crushed on site to be used as a capping layer/piling mat over the area or used as infill to voids and other areas which need to be infilled . Tarmac material to be crushed to a type 2 certified material ready for use as a drainage run cover.

The demolition contractor will be able to provide Higgins Partnerships with material transfer notes and consignment notes showing the transfer of all materials for which they have been responsible during the demolition works.

**Table 1 – Demolition Waste Groups:
Audit Findings & Recommendations**

EWC	KEY GROUP	EXAMPLES	TOTAL TONNAGE	TOTAL RECOVERABLE	% REUSED	% RECYCLED
170102	BRICKS/HARDCORE	Bricks/blockwork	2000	2000	0%	100%
Recommendations		Bricks on this site have a low reclaim value and will therefore be crushed to 6F2 and resued on site.				
Pontential Waste Disposal Sites		N/A				
170101	CONCRETE	pipes, kerb stones, paving slabs, concrete rubble, precast in situ	4000	4000	0%	100%
Recommendations		Concrete will be crushed to 6F2 and reused on site.				
Pontential Waste Disposal Sites		N/A				
170201	TIMBER	softwood, hardwood, board products such as plywood, chipboard, medium density fibreboard (mdf)	60	60	0%	100%
Recommendations		it is reccomended that a local reclamation company is contacted to asses the possibility of reuse and recycling of timber products. However, if this is not possible, all timber arisings will be taken to a suitable transfer station to be recycled and reused as appropriate.				
Pontential Waste Disposal Sites		PEARCE pearce-group.co.uk ENVA Enva				
1703	ASPHALT & TAR	bitumen, coal tars, asphalt	10	10	0%	100%
Recommendations		Tarmac should be removed from site and recycled by a specialist waste contractor.				
Pontential Waste Disposal Sites		RMS recycledmaterials supply.co.uk				
1704	METALS	radiators, cables, wires, bars, sheet	50	50	3%	97%
Recommendations		Metal sitex doors and shutters will be kept and collected by the site owner. Metal will be separated on site and it is reccomended that any non-ferrous metals should be spearated from other materials as they have a higher resale value on the metal market. These metals should be removed and taken to a licenced Waste Management centre to be recycled.				
Pontential Waste Disposal Sites		EMR EMR Global UK MRG LCM Scrap				
170904	MIXED (RUBBISH) OR OTHER	efforts should be made to categorise waste into the above categories wherever possible	60	60	0%	95%
Recommendations		Any products that cannot be categorised otherwise, will be taken to a Waste Transfer Station where it will be further segregated into different waste streams to lessen or eliminate where possible, the percentage reaching landfill.				
Pontential Waste Disposal Sites		POWERDAY Powerday WESTMINSTER WASTE Westminster Waste				

170605	HAZARDOUS	defined in the hazardous waste list (hwl) of the european waste catalogue (ewc)	10	0	0%	0%
Recommendations		An Asbestos survey should be carried out and if present, recommendations made for its removal. All ACMs will be managed according to the Control of Asbestos Regulations 2012. All asbestos waste will be taken to a licenced Waste Disposal Centre.				
Potential Waste Disposal Sites		Mick George Home - Mick George - Construction Industry Leaders Dem Waste HOME (demwaste.co.uk)				
170802	GYPSUM	plasterboard, plaster, fibre cement sheets	2	2	0%	100%
Recommendations		Plasterboard waste must be segregated either on site and either recycled by a licenced waste company or if absolutely necessary, sent to landfill where it must be deposited in a separate cell where no biodegradable waste has been accepted.				
Potential Waste Disposal Sites		WESTMINSTER WASTE Westminster Waste				
170203	PLASTICS	pipes, cladding, frames, non-packaging sheet	10	10	0%	100%
Recommendations		PVC window and door frames should be recycled or reused. There are various companies who are able to reuse or recycle these appropriately.				
Potential Waste Disposal Sites		WESTMINSTER WASTE Westminster Waste				
170604	INSULATION	glass fibre, mineral wool, foamed plastic	N/A	N/A		
1501	PACKAGING	paint pots, pallets, cardboard, cable drums, wrapping bands, polythene sheets	N/A	N/A		
1602	ELECTRICAL & ELECTRONIC EQUIPMENT	electrical and electronic tvs, fridges, air-conditioning units, lamps equipment	N/A	N/A		
1301	OILS	hydraulic oil, engine oil, lubricating oil	N/A	N/A		
170103	TILES & CERAMICS	ceramic tiles, clay roof tiles, ceramic, sanitary ware	N/A	N/A		
1701	INERT	mixed rubble or excavation material, glass	N/A	N/A		
1705	SOILS	soils, clays, sand, gravel, natural stone	N/A	N/A		
	LIQUIDS	non-hazardous paints, thinners, timber treatments	N/A	N/A		
	ARCHITECTURAL FEATURES	roof tiles, reclaimed bricks, fireplaces	N/A	N/A		
TOTAL			6,202	6,202		

Material	Reuse	Recycled		Waste
		Roads	Buildings	
Concrete	100%	10%	90%	0%
Brick/Hardcore	100%	0	100%	0%
Metals	100%	0	100%	0%
Glass	100%	0	100%	0%
Rubbish	0%	0	0%	100%
Wood	100%	0	100%	0%
Tarmac	100%	100%	0%	0%