



FELLOWS
ENVIRONMENTAL
waste | energy | resource management

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Appendix 1 – External Bin Store

1. FELLOWS ENVIRONMENTAL DETAILS

Contact Name	Nick Fellows
Registered Company Address	191A Monton Road Monton Village Eccles Manchester M30 9PN
Company Registration Number	7197447
VAT Number	988 5725 46
Telephone: Landline Mobile	0161 2228687 07760 401285
Email address	nick@fellowsenvironmental.com
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Document written by: Nick Fellows, Director	
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2. INTRODUCTION

Fellows Environmental (FE) has been appointed by NADA Architects to produce a waste management strategy for the proposed changes to 160-162 Cheetham Hill Road, Manchester, M8 8LQ. The site is currently being used as a wholesale and distribution business. The site area is 427m².

The application seeks to subdivide the large ground floor into two retail units and two wholesale units as well retaining the wholesale use on the first and second floors.

Therefore this will be a commercial development. The waste management plan will be written in line with GD 04, Waste Storage and Collection Guidance for New Developments V6.0.

3. WASTE MANAGEMENT STRATEGY

3.1 Estimated volumes and types of waste

3.1.1 Commercial

The two retail units, in line with the guidance document GD 04 Waste Storage and Collection Guidance for New Developments V6.0 require 5,000l of capacity for every 1,000m² of floor space.

The three wholesale units are not specifically covered within the guidance document. FE have used the 2,600l of capacity for every 1,000m² of floor space (same as an office). Although the nature of the business is similar to retail, in retail uses the products are taken out of the bulk packaging they are delivered in and have a large number of customers on the premises. The wholesale use does not generate this packaging waste as items remain in bulk boxes. There are also far fewer customers attending the site. Therefore the 2,600l capacity per 1000m² of the office is likely to be very close to the actual amount of waste generated, if not even less as there are less employees in the wholesale use. Following these calculations the following bin capacities are recommended:

- Unit 1 (retail) - 335 litres
- Unit 2 (retail) - 280 litres
- Unit 3 (Wholesale) - 150 litres
- Unit 4 (Wholesale) - 170 litres
- Second Floor (Wholesale) - 488 litres

Table 1 below shows the bin requirements and suggested collection frequency.

Table 1 – Number of Waste Receptacles Required

Unit	Number of bins	Capacity	Collection frequency
Unit 1 - Retail	2	240 litre each	Fortnightly
Unit 2 - Retail	2	240 litre each	Fortnightly
Unit 3 – Wholesale	2	240 litres each	Fortnightly
Unit 4 – Wholesale	2	240 litres each	Fortnightly
Upper Floors - Wholesale	2/4	240 litres each	Fortnightly

Table 1 shows that for units 1-4 the 480 litre capacity provided by 240 litre wheeled bins is greater than the capacity requirement calculations. Although 140 litre bins could be used it is suggested the 240 litre bins are used so the collection can be fortnightly or even every three week as the capacities of units 1-4 are well within the storage capacity estimates. This will reduce vehicle movements.

The upper floors wholesale use is almost exactly in line with the recommended capacity but 4 240 litre wheeled bins could be provided if required to reduce the collection frequency.

In line with the guidance two waste streams are proposed (each with the same capacity) as the retail and wholesale uses will generate both residual and recyclable materials;

1. Residual waste
2. Mixed recyclables; Cardboard and paper, plastic bottles, metals etc

3.2 Storage Areas for Waste Containers

3.2.1 Internal Stores

The wholesale units will have dry recycling and residual bins placed in the office, main wholesale area and kitchenette with a residual bin in the WC's. The retail units will have a residual bin in the WC's and a residual and recycling bin in the kitchen and on the main retail space (most likely behind the sales counter).

3.2.2 External Stores

Due to the nature of the external space it is not possible to fit a 1.3m wide corridor into the external bin storage area. However the design (see Appendix 1 – External Bin Store and drawing (04)001 PL2 – Proposed GA Site Plan & Elevations) allows for more than enough room to move bins past each other within the bin store.

The bin store design allows for horizontal removal of containers (without moving other containers) over a smooth, impervious continuous surface. The door to the bin store is over 1.3m wide.

Bins are accessed for the units via the corridor and fire exit shown on drawing (03)003 PL3.

3.3 Ventilation, Hygiene and Cleaning Proposals

The bins are stored externally so no ventilation required. The bins will be cleaned as required.

3.4 Location of Proposed Collection Point and Collection Vehicle route

The bins will be collected by the contractor from the collection point shown in figure 1 below. The waste collection vehicle will approach down Stocks Street to collect the bins.

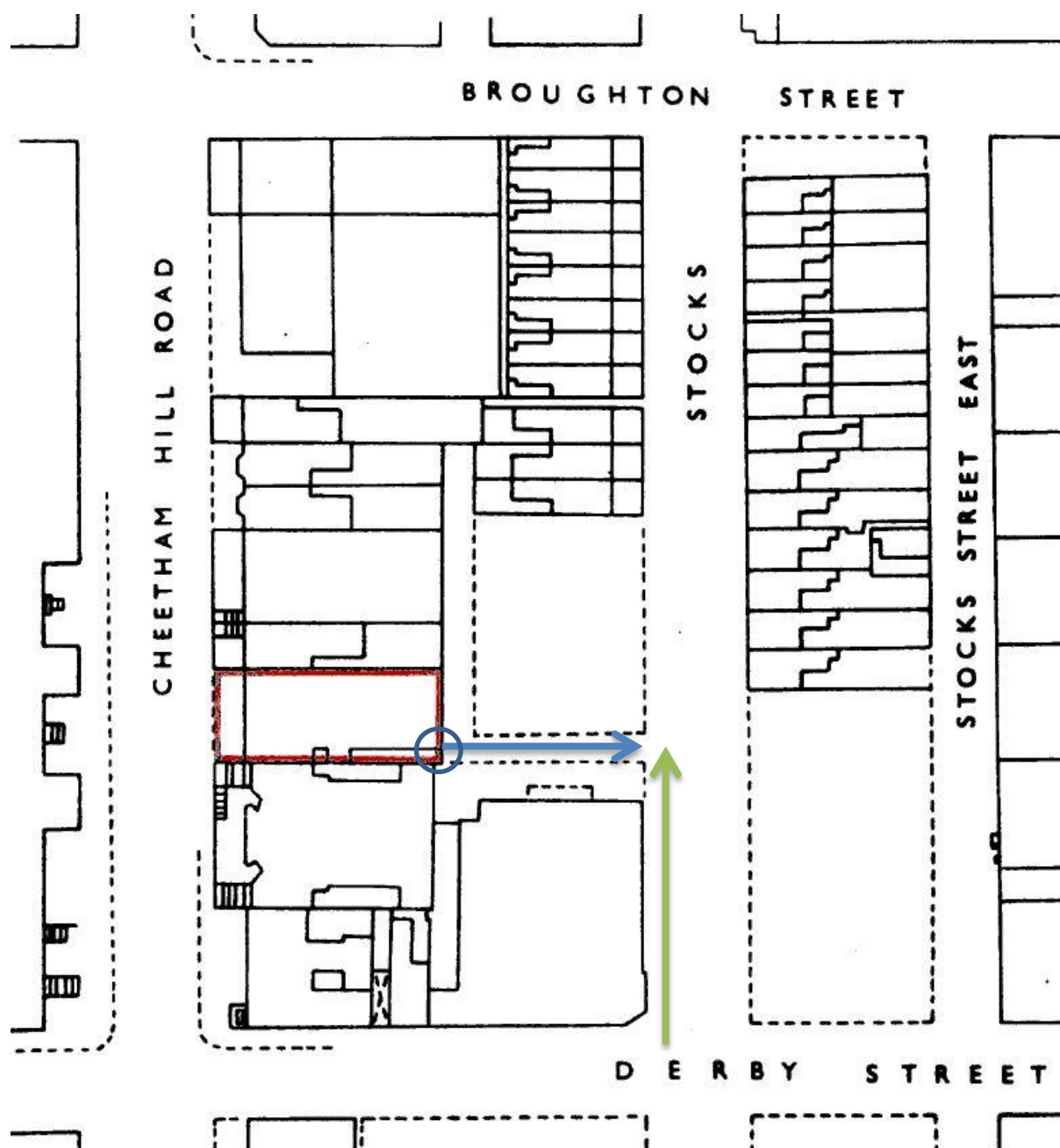


Figure 1: Proposed route to collection point (blue), and route taken by collection vehicle (green). The collection point is highlighted as a blue circle.

Appendix 1 External Bin Store

