

## The former Stag Brewery, Mortlake

**Operational Waste Management Plan** 

On behalf of Reselton Properties Limited

Project Ref: 12345/001 | Rev: D | Date: March 2022

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- Appendix B Servicing Routes & Waste Storage Locations
- Appendix C School Waste Collection



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## **1** Introduction

## 1.1 Overview

- 1.1.1 This Operational Waste Management Plan (WMP) has been prepared by Stantec on behalf of Reselton Properties Limited ("the Applicant") in support of two linked planning applications ("the Applications") for the comprehensive redevelopment of the former Stag Brewery Site in Mortlake ("the Site") within the London Borough of Richmond upon Thames (LBRuT).
- 1.1.2 This WMP has been produced in accordance with the relevant national, regional and local planning policies. This WMP should be read in conjunction with the Transport Assessment (TA) and other supporting documents produced for the planning application.
- 1.1.3 The Site is located in Mortlake and lies between the River Thames and A3003 Lower Richmond Road and Mortlake High Street in the LBRuT. It comprises two distinct parts separated by Ship Lane, a public highway. The eastern section of the Site fronts onto Mortlake High Street and backs onto the River Thames, whilst Lower Richmond Road borders the western section and this part of the site does not have direct access to the River. Williams Lane borders the site to the west, whilst Boat Race House is located to the east of the site.
- 1.1.4 The redevelopment will provide homes (including affordable homes), accommodation for an older population, complementary commercial uses, community facilities, a new secondary school alongside new open and green spaces throughout. Associated highway improvements are also proposed, which include works at Chalkers Corner junction.
- 1.1.5 A summary of the Applications is set out below:
  - Application A "Hybrid application to include the demolition of existing buildings to allow for comprehensive phased redevelopment of the site:

Planning permission is sought in detail for works to the east side of Ship Lane which comprise:

- a) Demolition of existing buildings (except the Maltings and the façade of the Bottling Plant and former Hotel), walls, associated structures, site clearance and groundworks.
- b) Alterations and extensions to existing buildings and erection of buildings varying in height from 3 to 9 storeys plus a basement of one to two storeys below ground.
- c) Residential apartments
- d) Flexible use floorspace for:
  - i. Retail, financial and professional services, café/restaurant and drinking establishment uses
  - ii. Offices
  - iii. Non-residential institutions and community use
  - iv. Boathouse
- e) Hotel / public house with accommodation
- f) Cinema
- g) Offices
- h) New pedestrian, vehicle and cycle accesses and internal routes, and associated highway works
- i) Provision of on-site cycle, vehicle and servicing parking at surface and basement level
- j) Provision of public open space, amenity and play space and landscaping
- k) Flood defence and towpath works
- I) Installation of plant and energy equipment



Planning permission is also sought in outline with all matters reserved for works to the west of Ship Lane which comprise:

- a) The erection of a single storey basement and buildings varying in height from 3 to 8 storeys
- b) Residential development
- c) Provision of on-site cycle, vehicle and servicing parking
- d) Provision of public open space, amenity and play space and landscaping
- e) New pedestrian, vehicle and cycle accesses and internal routes, and associated highways works"
- Application B "Detailed planning permission for the erection of a three-storey building to provide a new secondary school with sixth form; sports pitch with floodlighting, external MUGA and play space; and associated external works including landscaping, car and cycle parking, new access routes and other associated works"
- 1.1.6 Together, Applications A and B described above comprise the 'Proposed Development'.
- 1.1.7 In addition to this TA, the Planning Application is accompanied by a Framework Delivery & Servicing Plan, Waste Management Plan, Car Park Management Plan and Travel Plans, which should be read in conjunction with this document.

## 1.2 Planning History

- 1.2.1 The current applications follow earlier planning applications which were refused by the Greater London Authority and the GLA. The refused applications were for:
  - Application A hybrid planning application for comprehensive mixed-use redevelopment of the former Stag Brewery site consisting of:
    - Land to the east of Ship Lane applied for in detail (referred to as 'Development Area 1' throughout); and
    - Land to the west of Ship Lane (excluding the school) applied for in outline (referred to as 'Development Area 2' throughout).
  - Application B detailed planning application for the school (on land to the west of Ship Lane).
  - Application C detailed planning application for highways and landscape works at Chalkers Corner.
- 1.2.2 The LBRuT (the Council) resolved to grant planning permission for Applications A and B but refuse Application C.
- 1.2.3 Following the LBRuT's resolution to approve the Applications A and B, the Mayor called-in the Applications and became the determining authority. The Mayor's reasons for calling in the Applications were set out in his Stage II letter (dated 4 May 2020) but specifically related to concerns regarding what he considered was a low percentage of affordable housing being proposed for the Site and the need to secure a highways solution for the scheme following the LBRuT's refusal of Application C.
- 1.2.4 Working with the Mayor's team, the Applicant sought to meaningfully respond to the Mayor's concerns on the Applications. A summary of the revisions to the scheme made and submitted to the GLA in July 2020 is as follows:
  - Increase in residential unit provision from up to 813 units to up to 1,250 units;



- Increase in affordable housing provision from (up to) 17%, to 30%;
- Increase in height for some buildings of up to three storeys;
- Change to the layout of Blocks 18 and 19, conversion of Block 20 from a terrace row of housing to two four storey buildings;
- Reduction in the size of the western basement, resulting in an overall car parking spaces reduction of 186 spaces and introduction of an additional basement storey under Block 1;
- Internal layout changes and removal of the nursing home and assisted living in Development Area 2;
- Landscaping amendments, including canopy removal of four trees on the north west corner of the Site; and
- Alternative options to Chalkers Corner, in order to mitigate traffic impacts through works to highway land only and allow the withdrawal of Application C.
- 1.2.5 The application was amended to reflect these changes.
- 1.2.6 Notwithstanding this, and despite GLA officers recommending approval, the Mayor refused the applications in August 2021.
- 1.2.7 The Mayor's reasons for refusal in respect of Application A were:
  - height, bulk and mass, which would result in an unduly obtrusive and discordant form of development in this 'arcadian' setting which would be harmful to the townscape, character and appearance of the surrounding area;
  - heritage impact. The proposals, by reason of its height, scale, bulk and massing would result in less than substantial harm to the significance of several listed buildings and conservation areas in the vicinity. The Mayor considered that the less than substantial harm was not clearly and convincingly outweighed by the public benefits, including Affordable Housing, that the proposals would deliver;
  - neighbouring amenity issues. The proposal, by reason of the excessive bulk, scale and siting of Building 20 and 21 in close proximity to the rear of neighbouring residential properties in Parliament Mews and the rear gardens of properties on Thames Bank, would result in an unacceptable overbearing an unneighbourly impact, including direct overlooking of private amenity spaces. The measures in the Design Code would not sufficiently mitigate these impacts; and
  - no section 106 agreement in place.
- 1.2.8 Application B was also refused because it is intrinsically linked with Application A and therefore could not be bought forward in isolation.

#### The Proposed New Scheme

- 1.2.9 This 3rd iteration of the scheme seeks to respond directly to the Mayors reasons for refusal and in doing so also addresses number of the concerns raised by the LBRuT.
- 1.2.10 The amendments can be summarised as follows:
  - A revised energy strategy is proposed in order to address the London Plan (2021) requirements;



- Several residential blocks have been reduced in height to better respond to the listed buildings along the Thames riverfront and to respect the setting of the Maltings building, identified as a Building of Townscape Merit (BTM) by the LBRuT;
- Reconfiguration of layout of Buildings 20 and 21 has been undertaken to provide lower rise buildings to better respond to the listed buildings along the Thames riverfront; and
- Chalkers Corner light highways mitigation works.
- 1.2.11 The school proposals (submitted under 'Application B') are unchanged. The Applicant acknowledges LBRuT's identified need for a secondary school at the Site and the applications continue to support the delivery of a school. It is expected that the principles to be agreed under the draft Community Use Agreement (CUA) will be the same as those associated with the refused school application (LBRuT ref: 18/0548/FUL, GLA ref: GLA/4172a/07)..
- 1.2.12 Overall, it is considered that together, the Applications respond successfully to the concerns raised by the GLA which also reflect some of the concerns raised by stakeholders in respect of the previous schemes and during pre-application discussions on the revised Proposed Development. As a result, it is considered that the scheme now represents a balanced development that delivers the principle LBRuT objectives from the Site.

#### 1.3 Waste Management Plan Objectives

- 1.3.1 The objectives of this WMP are to:
  - Identify the relevant waste management policy and guidance relevant to the development and its requirements.
  - Set the waste management aspirations for the development.
  - Identify the waste expected to arise during operation.
  - Present how waste will be separated and stored on Site.
  - Demonstrate how waste will be collected/serviced.
- 1.3.2 This WMP discusses operational waste only, whilst matters relating to the management of waste during construction are considered separately.



## 2 Site Context

## 2.1 Site Location

- 2.1.1 The former Stag Brewery Site is bounded by Lower Richmond Road to the south, the river Thames and the Thames Bank to the north, Williams Lane to the east and Bulls Alley (off Mortlake High Street) to the west. The Site is bisected by Ship Lane. The Site currently comprises a mixture of large-scale industrial brewing structures, large areas of hardstanding and playing fields.
- 2.1.2 The surrounding area is primarily residential but there are also a wide range of local facilities, including primary and nursery schools, local shops and restaurants and the Barnes Hospital, all within easy walking distance of the Site.
- 2.1.3 Error! Reference source not found. identifies the Site boundary within Mortlake for the P roposed Development.

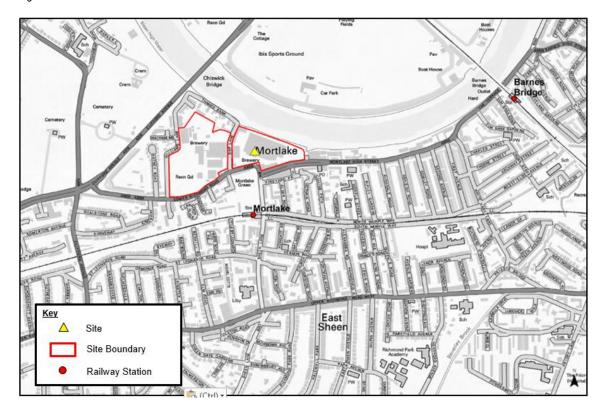


Figure 2-1: Site Location

## 2.2 Development Proposals

- 2.2.1 The Site is the former Stag Brewery, which ceased brewery operations in December 2015. The development proposals have been guided by LBRuT's Planning Brief which was adopted as an SPG in July 2011 as well as the emerging Site Allocation contained within LBRuT's emerging Local Plan (Policy SA 24). The redevelopment will provide homes (including affordable homes), accommodation for an older population, complementary commercial uses, community facilities, a new secondary school alongside new open and green spaces throughout. Associated highway improvements are also proposed, which include works at Chalkers Corner junction
- 2.2.2 As outlined in Section 1, this WMP supports the following applications:



- Application A Hybrid planning application for comprehensive mixed-use redevelopment of the former Stag Brewery site consisting of:
  - i. Land to the east of Ship Lane applied for in detail referred to as 'Development Area 1' throughout); and
  - ii. Land to the west of Ship Lane (excluding the school) applied for in outline (referred to as 'Development Area 2' throughout).
- Application B Detailed planning application for the school (on land to the west of Ship Lane)

### 2.3 Proposed Access and Street Layout

Table 2-1: Development Quantum

Land Use	Development Quantum						
Application A (Development Area 1)							
Residential	558 units						
Unspecified Flexible Floor Areas inc, Retail/Restaurant/Office/Community/Boathouse	4,839 m <sup>2</sup>						
Office	4,547 m <sup>2</sup>						
Hotel	1,765 m <sup>2</sup>						
Cinema	1,606 m <sup>2</sup>						
Application A (Deve	lopment Area 2)						
Residential	527 units						
Application B (School Application)							
School	9,319 m <sup>2</sup> (1,200 students)						

## 2.4 **Descriptions of Development**

## **Application A – Development Area 1**

- 2.4.1 The detailed application, which relates to the area to the east of Ship Lane (Development Area 1), would provide 558 residential units as well as the majority of the non-residential uses within the site, including local shops, restaurants and bars, and leisure and community uses. This is in keeping with the Planning Brief and Site Allocation 24 of the Local Plan which seek the creation of a new vibrant centre for Mortlake in this area.
- 2.4.2 Accordingly, the main retail uses will be centred around a new "high street" running parallel to Mortlake High Street through the centre of the Site and the development will also create a more active frontage to the river including new bars and restaurants. The development includes a new cinema and office floor space all of which are located along the Mortlake High Street/Lower Richmond Road frontage. It is also anticipated that this frontage will include a new local convenience store.



2.4.3 Table 2-2 provides a breakdown of the residential development within the detailed application. All residential accommodation in this part of the development will be in the form of apartments.

Table 2-2: Detailed Application Residential Mix Summary

	1 Bed	2 Bed	3 Bed	4 Bed	Total
Total Residential Units	116	295	140	7	558

2.4.4 Development Area 1 reflects the need to maintain a degree of flexibility regarding the end use of some of the non-residential space to allow for the land use to take account of market forces. Accordingly, an area amounting to 4,839 m<sup>2</sup> at ground floor level has been identified for flexible uses for the provision of local retail, restaurants and bars, community floor space, office and other services.

#### **Application A – Development Area 2**

- 2.4.5 Planning permission is sought in outline with all matters reserved for works at 'Development Area 2' (the west of Ship Lane), will comprise of:
  - "The erection of a single storey basement and buildings varying in height from 3 to 9 storeys;
  - Residential development;
  - Provision of on-site cycle, vehicle and service parking;
  - Provision of public open space, amenity and play space and landscaping;
  - New pedestrian, vehicle and cycle accesses and internal routes, and associated highways works."

Table 2-3: Outline Application anticipated Residential Mix Summary

	Studio	1 Bed	2 Bed	3 Bed	4 Bed	Total
Total Residential Units	48	166	185	109	19	527

#### **Application B – School**

2.4.6 Detailed planning permission is sought in detail for works to the west of Ship Lane, which comprise of:

"the erection of a three-storey building to provide a new secondary school with sixth form; sports pitch with floodlighting, external MUGA and play space; and associated external works including landscaping, car and cycle parking, new access routes and all other associated works"



## **3** Policy and Legislative Background

## 3.1 Introduction

3.1.1 This section provides a review of the relevant national, regional and local waste management policies, targets and guidance for the Site to ensure it is appropriately considered within this WMP and going forward. Some of the policies outlined below are development plan policies (with statutory weight), whilst others provide guidance.

## 3.2 European and National Policy Guidance

## The European Revised Waste Framework Directive

3.2.1 The European Revised Waste Framework Directive (2008/98/EC) sets the framework for UK Waste Policy. The Waste Hierarchy (Figure 3-1) runs throughout this policy and ranks waste management options according to what is best for the environment.

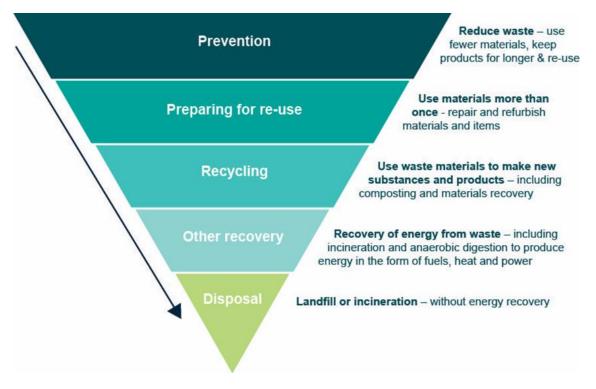


Figure 3-1: The Waste Hierarchy (Defra, 2011)

## The Waste (England and Wales) (Amended) Regulations 2014

- 3.2.2 The Waste (England and Wales) Regulations 2011 as amended by the Waste (England and Wales) (Amended) Regulations 2014 places a duty on waste producers and all handlers of waste to manage waste in accordance with a hierarchy of options where this achieves the best overall environmental outcome. Therefore, as a producer, the operator/residents of this development must endeavour to reduce, sort and separate waste for example, by separating the recyclable from the non-recyclable waste before placing out the residual waste for disposal (or potentially energy recovery).
- 3.2.3 These regulations also aim to improve the quality and quantity of material being collected for recycling. They do this by placing a duty on waste collectors, to enable recyclable material



(particularly glass, paper, plastics and metal), to be collected separately, where it is necessary to support the recovery of high-quality recyclables, and where this is technically, environmentally or economically practicable (TEEP). Although this duty is specifically on the collectors of waste, it is important for any new development to consider the logistical impacts of separating out these materials.

### Our Waste, Our Resources: A Strategy for England, December 2018

- 3.2.4 HM Government published 'Our Waste, Our Resources, a Strategy for England' in December 2018, which assists the Government's commitment set out in the 25 Year Environment Plan, to leave the environment in a better condition for the next generation. This Strategy reaffirms the UK's commitment to the waste hierarchy and introduces the circular economy concept in relation to waste. The circular economy model encourages the recycling of resources through recovering and regenerating products and materials to keep resources in use for longer.
- 3.2.5 This Strategy highlights the Government's ambitious plans in relation to food waste. Households produce approximately 7 million tonnes of food waste is produced annually, of which 5 million tonnes is categorised as edible. *'Reducing greenhouse gas emissions from landfill by ensuring that every householder and appropriate businesses have a weekly separate food waste collection'.*

## 3.3 Regional Policy and Guidance

## The London Plan 2021, March 2021

- 3.3.1 Under the legislation of the Greater London Authority (GLA), the Mayor is required to publish a Spatial Development Strategy (SDS), which is known as the London Plan.
- 3.3.2 On 2<sup>nd</sup> March 2021, the London Plan 2021 was formally published by the Mayor. The London Plan 2021 sets out the overall strategic plan for London, including an integrated economic, environmental, transport and social framework for the development of London, running from 2019 to 2041. With population set to increase by 70,000 per year, demand on new homes along with space for employment will increase. The policies set within the London Plan are to provide an appropriate spatial strategy that plans growth within London in a sustainable way.
- 3.3.3 The relevant policies for this Waste Management Plan are outlined below.
- 3.3.4 Policy D6 "Housing Quality and Standards" sets out a number of standards to be incorporated within the design of the scheme. In terms of waste, the Policy states "Housing should be designed with adequate and easily accessible storage space that supports the separate collection of dry recyclables (for at least card, paper, mixed plastics, metals, glass) and food waste as well as residual waste".
- 3.3.5 Policy SI 7 "Reducing waste and supporting the circular economy" details the key targets to increase material re-use, recycling and to reduce the amount of wate generated that goes for disposal. The policy requires the Mayor, waste planning authorities and industry to work in collaboration to achieve specific targets, which include to:
  - Promote a more circular economy that improves resource efficiency and innovation to keep products and materials at their highest use for as long as possible.
  - Encourage waste minimisation and waste prevention through the reuse of materials and using fewer resources in the production and distribution of products.
  - Ensure that there is zero biodegradable or recyclable waste to landfill by 2026.
  - Meet or exceed the municipal waste recycling target of 65 per cent by 2030.



Design developments with adequate, flexible, and easily accessible storage space and collection systems that support, as a minimum, the separate collection of dry recyclables (at least card, paper, mixed plastics, metals, glass) and food.

## London Environment Strategy, May 2018

- 3.3.6 The London Environment Strategy, adopted in May 2018, has been released with the aim of improving London's environment, specifically including a Chapter on Waste. This Strategy promotes the circular economy model and recognises resource efficiency as the fundamental principle in improving reuse, recycling and disposal rates.
- 3.3.7 Relevant policies and targets and proposals within this Strategy are detailed below.
- 3.3.8 Policy 7.1.1 sets out waste reduction targets for the city as a whole, and work with Londoners, waste authorities, government and other stakeholders to significantly cut waste and boost material reuse. This policy targets the reduction in single use plastic and food waste, through campaigns and funding and target of reducing food waste by 50% per head by 2030.
- 3.3.9 Policy 7.2.1 increases recycling rates to achieve a 65% municipal waste recycling rate by 2030. This will be achieved through:
  - A 50% Local Authority Collected Waste recycling target by 2025.
  - A 45% household waste recycling rate by 2025.
  - A 50% household waste recycling rate by 2030.
- 3.3.10 Policy 7.2.2 aims to increase recycling rates for commercially collected waste and reduce litter and fly tipping. The aim is to achieve a 75% minimum recycling rate of business waste by 2030.

#### 3.4 Local Policy and Guidance

# London Borough of Richmond upon Thames Local Plan: Refuse and Recycling Storage Requirements, April 2015

3.4.1 The local policy and guidance which relates to waste in the LBRuT area includes policies set jointly by the West London Boroughs within the West London Waste Plan in relation to minerals and waste planning, and planning and development-related policies set by LBRuT. This subsection outlines the relevant policies in relation to the proposed development.

#### Adopted West London Waste Local Plan

3.4.2 The West London Waste Local Plan was adopted in July 2015 by the West London Boroughs, including; Brent, Ealing, Harrow, Hounslow, Hillingdon, Richmond-upon-Thames and Old Oak and Park Royal Development Corporation. The Plan outlines the vision and strategy for managing waste in the West London area until 2031 and refers to the overarching waste targets outlined in the London Plan, as seen above. Therefore, the proposed development will aim to achieve these targets and mange waste in accordance with the Waste Hierarchy.

## Adopted Sustainable Construction Checklist Guidance Document

3.4.3 The Sustainable Construction Checklist Guidance Document was adopted by LBRuT in January 2016. This document provides a checklist to help inform developers on sustainability issues relevant to their development. In relation to sustainable waste management, the document makes reference to following the Waste Hierarchy and the encouragement of composting food and organic waste facilities on site to help reduce the amount of waste sent to landfill. A



Sustainable Construction Checklist has been prepared and submitted alongside these applications (included as an appendix to the Sustainability Statement, prepared by Hoare Lea).

### Adopted Refuse and Recycling Storage Requirements

- 3.4.4 The Refuse and Recycling Storage Requirements Supplementary Planning Document (SPD) was adopted by LBRuT in April 2015. The SPD offers guidance for the sustainable management of waste in the Borough to enhance the overall quality of the environment and reduce adverse environmental impacts from the handling, storage, processing, transportation and disposal of waste. The SPD outlines the following requirements for operational refuse collection and recycling:
  - The design of storage facilities should be sufficiently large enough to accommodate different waste containers and allow space for the separation of commercial waste storage and residential waste storage;
  - Accessible and secure provision for the storage of waste and recycling materials, with consideration of LBRuT's highway guidelines and environmental requirements; and
  - Provision of operational waste and recycling provision must accord with LBRuT's collection services and accessibility guidelines.
- 3.4.5 Sections 4, 5 and 6 of this WMP expand upon the details provided in this SPD and explain the proposed operational waste strategy and set out how adequate, safe and secure provision will be provided going forward.

## London Borough of Richmond upon Thames - Adopted Local Plan (2018)

- 3.4.6 The LBRuT Local Plan Adopted July 2018 has superseded the policies from the Core Strategy (2009) and the Development Management Plan (2011).
- 3.4.7 **Policy LP 24** determines that waste will be managed in line with the principles of the waste hierarchy; which requires all developments to:
  - provide adequate refuse and recycling storage should be provided in line with the guidance set out within the SPD; and
  - ensure sensitive integration of all waste management facilities within the overall design of schemes.

#### 3.5 Summary

- 3.5.1 To summarise, the main operational waste management requirements that apply to the development, include:
  - Accordance with the Waste Hierarchy;
  - To support the increase of recycling and composting of municipal waste by 65% by 2030; and
  - To support the delivery of recycling, composting and reuse of C&I waste by 70% by 2020.
- 3.5.2 To note, the local guidance documents have been taken into consideration throughout the development of this WMP.



## 4 Estimated Waste Arisings

## 4.1 Introduction

4.1.1 The different land uses proposed for this scheme will produce different streams and volumes of waste. As a result, this section outlines the estimated operational waste arising from the development.

## 4.2 Estimated Waste Volumes Guidance

- 4.2.1 The waste from the operation of the development has been assessed using national benchmarks and local planning guidance. By quantifying the likely volumes of waste that will be generated in this way, an assessment of expected quantities of waste and appropriate management facilities can be integrated with the objective of reducing waste volumes.
- 4.2.2 The predicted waste volumes from the proposed residential uses and non-residential uses have been based on the guidance outlined in *LBRuT Refuse and Recycling Storage Requirements SPD (April 2015).* The guidance sets out the following requirements for storage capacity of refuse in new developments:
  - For houses with individual refuse containers: storage capacity of 240 litres for refuse per household of three bedrooms or fewer and storage capacity of 360 litres for refuse per household more than three bedrooms;
  - For development using communal refuse storage containers: storage capacity of 70 litres per bedroom; and
  - For offices: 2.6 cubic metres waste storage should be provided for every 1,000m2 gross floor space.
- 4.2.3 LBRuT do not provide any specific guidance on the expected quantities of other non-residential waste. Therefore, guidance figures for the overall volume of waste likely to arise in the cinema, retail units, café/restaurants and community facilities proposed in Application A, are from the British Standards (BS 5906:2005): *Waste Management in Buildings Code of Practice*. For the school facilities proposed in Application B, waste volumes have been estimated on the base storage capacity requirements of 12.7 litres waste per week per student/pupil, as per the guidance outlined in Wandsworth Council's (2014) *Refuse and Recyclables in Developments SPD*.

## 4.3 Estimated Waste Volumes

## **Application A – Development Area 1**

4.3.1 This sub-section outlines the estimated waste volumes expected during the operation of Development Area 1.

#### **Residential Use**

4.3.2 Based on the standards set out above, Table 4.1 sets out the estimated waste volumes of the residential use per unit type.



Table 4-1: Estimated Waste Volumes for Residential Use per Unit Type for Deve	elopment 1

Proposed Q	uantum Mix	Expected Weekly Storage Capacity	Total Expected Waste Volumes (litres per week)
Studio	-		-
1-bed	116		8,120
2-bed	295	70 litres per bedroom	41,300
3-bed	140	-	29,400
4-bed	7		1,960
TOTAL	TOTAL 558		80,780

## 4.3.3 In addition, the estimated waste volumes for the proposed residential development per building is detailed in Table 4-2.

Building			Unit T	уре		Expected Weekly Storage Capacity	Total Expected Waste Volumes (litres per week)
No.							
2	22	63	33		118		17,290
3	8	27	13		48	-	7,070
4		15	5		20		3,150
6	4	14	6		24	-	3,500
7	19	47	21		87	70 litros por hodroom	12,320
8	21	44	33	2	100	70 litres per bedroom	15,120
9		6	3	4	13		2,590
10	27	21			48	-	4,830
11	11	21	19	1	52		7,980
12	4	37	7		48		6,930
TOTAL	119	299	140	7	558	TOTAL (litre/ per week)	80,780

Table 4-2: Estimated Waste Volumes for Residential Use per Block for Development 1

4.3.4 It is estimated that the residential component of the development could result in approximately 80,780 litres of household waste per week. The storage provision for this volume of waste is considered in **Section 6**.



## Non-Residential Use

4.3.5 Table 4-3 sets out the estimated waste volumes of the non-residential use for Development Area 1.

Assumed Land Use (GIA)		Expected Weekly Storage Capacity	Total Expected Waste Volumes (litres per week)
Office	4,547 m²	2.6m <sup>3</sup> waste storage for every 1,000m <sup>2</sup> gross floor space	11,822
Cinema	1,606 m <sup>2</sup>	5 litres waste storage per m <sup>2</sup> floor area	8,030
Hotel	1,765 m <sup>2</sup> (15 bedrooms)	250 litres waste storage per bedroom	3,750
Flexible Use	4,839 m <sup>2</sup>	10 litres waste storage per floor area	48,390
	TOTAL (litre/per week)		71,992

Table 4-3: Estimated Waste Volumes for Non- Residential Land Use in Development Area 1

- 4.3.6 It is estimated that the non-residential component of Development Area 1 could result in approximately 71,992 litres of commercial waste per week, based on a conservative estimate, and assuming the flexible use all to be generating at a rate of 10 litres per m<sup>2</sup>.
- 4.3.7 The estimated waste arisings for the non-residential units is indicative only. The actual provision for non-residential waste will be dictated by the incoming tenants/occupiers and their waste contractors

### **Application A – Development Area 2**

4.3.8 This sub-section outlines the estimated waste volumes expected during the operation of Development Area 2.

#### **Residential Use**

4.3.9 Based on the standards set out above, Table 4-4 sets out the estimated waste volumes of the residential use per unit type.

	Proposed Qu	iantum Mix	Expected Weekly Storage Capacity	Total Expected Waste Volumes (litres per week)
	Studio	48		3,360
Flata	1-bed	166	70 litres per	11,620
Flats	2-bed	185	bedroom	25,900
	3-bed	97		20,370

Table 4-4: Estimated Waste Volumes for Residential Use per Unit Type for Development 1



	4-bed	8		2,240
	3-bed	12	240 litres per household of three bedrooms or less	2,880
Houses	4-bed	11	360 litres per household of more than three bedrooms	3,960
	TOTAL	527	TOTAL (litre/ per week)	70,330

## 4.3.10 In addition, the estimated waste volumes for the proposed residential development per building is detailed in Table 4-5.

			Unit	Туре				
Building No.	Studio	1-bed	2-bed	3-bed	4-bed	Total	Expected Weekly Storage Capacity	Total Expected Waste Volumes (litres per week)
13	4	15	22	2	0	43		4,830
14	0	8	24	2	0	34		4,340
15	0	89	24	0	2	115		10,150
16	20	20	31	1	0	72	70 litres per bedroom	7,350
17	24	22	21	8	0	75		7,840
18	0	0	49	64	6	119		21,980
19	0	12	14	20	0	46		7,000
20	0	0	0	12	4	16	<ul> <li>240 litres per household of</li> </ul>	4,320
21	0	0	0	0	7	7	<ul> <li>Household of three bedrooms or less</li> <li>360 litres per household of more than three bedrooms</li> </ul>	2,520
TOTAL	48	166	185	109	19	527	TOTAL (litre/ per week)	70,330

Table 4-5: Estimated Waste Volumes for Residential Use per Block for Development 2

4.3.11 It is estimated that the residential component of Development Area 2 could result in approximately 70,330 litres of residential waste per week. To note, the mix and total number of residential units used to estimate the waste volumes in this sub-section has not been confirmed. The estimated mix and total number of residential units is comparable to the actual mix for Development Area 1, therefore estimations for the waste arising from the proposed residential



units in Development Area 2 will only be feasible once the actual mix of housing is confirmed at Reserved Matters.

### **Application B – School**

4.3.12 This sub-section outlines the estimated waste volumes expected during the operation of the school proposed in Application B.

Table 4-6: Estimated Waste Volumes for the School

Assumed Land Use	Expected Weekly Storage Capacity	Total Expected Waste Volumes (litres per week)
1,200 pupils	12.7 litres per week per student/pupil	15,240
	TOTAL (litre/per week)	15,240

4.3.13 It is estimated that the school could result in approximately 15,240 litres of waste per week. To note, the estimated waste arisings for the school is indicative only. The actual provision for the school waste will be dictated by the incoming tenants/occupiers and their waste contractors.



## **5** Waste Separation and Recycling Proposals

### 5.1 Introduction

5.1.1 This section outlines how different streams of waste arising during the operation of the development will be segregated and stored on Site.

## 5.2 Application A – Development Area 1

### **Residential Use**

#### Materials to be collected

- 5.2.1 Residential units in Development Area 1 have been designed to incorporate appropriate spaces to enable a large proportion of the waste arising to be separated for recycling and as a result reducing the amount of waste requiring disposal.
- 5.2.2 In accordance with the requirements set by LBRuT, separate recycling bins and general waste bins will be allocated for:
  - General waste;
  - Mixed paper, card and carton recycling bins; and
  - Mixed container recycling bins for plastic, tins, unbroken glass and aerosols.
- 5.2.3 Although the provision for communal food waste collection is not a requirement for flats with over 5 units, it is proposed that there will be sufficient internal space for one 23 litre food waste bin in each residential unit in Development Area 1. This was suggested by LBRuT, in case the collection of food waste for flats with over 5 units becomes a requirement when the scheme is in operation.

#### Storage Requirements

5.2.4 In accordance with LBRuT's *Refuse and Recycling Storage Requirements SPD (2015)*, the following recycling storage requirements have been considered within this WMP and the design process for the residential units in Development Area 1:

No. of households served by bin area	Mixed paper, card and carton recycling bins	Mixed container recycling bins	Total recycling bins
	Flat of three of	or more units	
3 – 5	1 x 240L	1 x 240L	2 x 240L
7 – 8	1 x 360L	1 x 360L	2 x 360L
9 – 11	2 x 240L	2 x 240L	4 x 240L
12 – 17	2 x 360L	2 x 360L	4 x 360L
18 – 25	1 x 1100L	1 x 1100L	2 x 1100L

Table 5-1: Recycling Storage Provisions for Residential Units



26 – 45	2 x 1100L	2 x 1100L	4 x 1100L
46 – 70	3 x 1100L	3 x 1100L	6 x 1100L

5.2.5 This WMP and the design process for the residential units in Development Area 1 have assumed the provision of 1100 litre Eurobins for the storage of general refuse waste.

## **Non-Residential Use**

#### Materials to be collected

- 5.2.6 The specifics of materials to be collected from the non-residential units in Development Area 1 will be determined by their individual uses and their appointed waste collection contractors. Sufficient space has been allocated within the individual non-residential units to accommodate the separation and collection of a variety of materials.
- 5.2.7 Non-residential uses in Development Area 1 will aim to provide sufficient storage space to help enable the commercial elements of the development to support the Mayor's target of 70% C&I waste to be recycled.

#### **Storage Requirements**

- 5.2.8 The storage requirements for the non-residential uses in Development Area 1 have been based on the guidance outlined in LBRuT's *Refuse and Recycling Storage Requirements SPD* (2015). Although this SPD only provides specific guidance on the storage requirements for offices, the same principles have been applied to the cinema, retail units, café/restaurants and community facilities, to ensure that the storage facilities will be sufficiently large enough to accommodate for the expected weekly arisings of waste. This SPD sets out the following requirements:
  - 50% of the expected waste capacity of office waste should be retained for the storage of separated waste for recycling.
- 5.2.9 To note, the non-residential storage areas will be clearly separated from the storage area for the residential waste, with separate access to each use.

## 5.3 Application A – Development Area 2

#### **Residential Use**

#### Materials to be collected

- 5.3.1 The residential units in Development Area 2 will be designed to incorporate appropriate spaces to enable a large proportion of the waste arising to be separated for recycling and as a result reducing the amount of waste requiring disposal.
- 5.3.2 In accordance with the guidelines set by LBRuT, separate recycling bins and general waste bins will be allocated for:
  - General waste;
  - Mixed paper, card and carton recycling bins; and
  - Mixed container recycling bins for plastic, tins, unbroken glass and aerosols.
- 5.3.3 Furthermore, the proposed townhouses in Development Area 2 will all provide sufficient space for storing recyclable and non-recyclable waste when designing kitchen/utility rooms, including



a one 23 litre food waste container, as outlined in LBRuT's *Refuse and Recycling Storage Requirements SPD (2015)*. Space will also be provided so that the container can be presented within the property boundary and be visible from the kerbside on the designated collection day.

#### Storage Requirements

- 5.3.4 The space allocated for waste stores in the residential units of Development Area 2 will be developed once the project reaches detailed design stage and following further consultation with LBRuT. The storage provisions will align with LBRuT's current collection practices and detailed measures for waste provision.
- 5.3.5 At present, LBRuT offers the following measures for domestic waste storage provisions, applicable to the proposed townhouses in Development Area 2:
  - Storage capacity of 360 litres for refuse for a four-bed household;
  - Storage capacity for two 55 litre recycling bins; and
  - Storage capacity for 23 litre food waste container.
- 5.3.6 Communal waste facilities are provided to flats which are designed to meet the different collection and storage challenges. LBRuT currently offers the following communal waste storage requirements, which have been considered in the design process for the flats in Development Area 2:
  - Storage capacity of 70 litres for refuse per bedroom;
  - Storage capacity for two types of recycling bins to store mixed paper, card and carton and mixed container recycling (see **Table 5-1** for specific requirements).

#### 5.4 Application B – School

#### Materials to be collected

- 5.4.1 The school has been designed to incorporate sufficient space to enable a large proportion of the waste arising to be separated for recycling, and as a result reducing the amount of waste requiring disposal.
- 5.4.2 It is expected that separate recycling bins and general refuse bins will be allocated for:
  - General waste bins, including food waste from the canteen;
  - Mixed paper, card and carton recycling bins and;
  - Mixed containers bins for plastic and tins etc.
- 5.4.3 However, the specifics of materials to be collected from the school will be determined through discussions with the appointed waste collection contractor. The school will aim to provide sufficient storage space to help enable the commercial elements of the development to support the Mayor's target of 70% C&I waste to be recycled.

#### Storage Requirements

5.4.4 As outlined in the previous sections, LBRuT does not provide any specific guidance on storage requirements for education facilities. To provide preliminary assumptions regarding the storage requirements for the school, this WMP has adopted LBRuT's general waste and recycling provisions for office units to the school to ensure storage facilities will be sufficiently large



enough to accommodate the expected weekly arisings of waste (including separate additional storage space provision for recycling). As a result, 50% of the expected waste capacity for the school will be retained for the storage of recyclable waste. This approach has been confirmed through discussions with LBRuT.



## 6 Storage and Servicing Logistics

## 6.1 Introduction

6.1.1 This section discusses the collection and servicing of the waste arising during the operation of the development.

## 6.1 Application A – Development Area 1

## **Residential Use**

#### **Waste Container Requirements**

6.1.1 Table 6-1 presents the indicative number of bins that would be required for the collection of household waste from the proposed development. These estimations have been based on the assumption of a twice weekly collection which was agreed by LBRuT on 29<sup>th</sup> November 2017.

Table 6-1: Estimated Container Requirements - Household Waste - Application A - Development Area 1

Building Number	Capacity Requirement (litres)	Indicative Number of 1100 litre bins for refuse based on collection twice a week	Indicative Number bins for recycling based on collection twice a week
2	17,290	8	6 x 1100 litre bins
3	7,070	3	6 x 1100 litre bins
4	3,150	1	2 x 240 litre bins
6	3,500	2	2 x 1100 litre bins
7	12,320	6	6 x 1100 litre bins
8	15,120	7	6 x 1100 litre bins
9	2,590	1	4 x 360 litre bins
10	4,830	2	6 x 1100 litre bins
11	7,980	4	6 x 1100 litre bins
12	6,930	3	6 x 1100 litre bins

6.1.2 Following discussions with LBRuT, a suitable space for the storage of bulky waste has been allocated in the Refuse & Recycling Collection Stores to manage the movement of bulky waste. The space will be sufficient enough to store a bulk waste storage container which conforms to British Standard BS EN 840: 1997.



#### Storage of Waste

- 6.1.3 The majority of residential units (Building(s) 2, 3, 7, 8, 11 and 12) will store their refuse and recycling waste in the basement of each building. Residents occupying Building(s) 4, 5, 6, 9 and 10 do not have access to the basement level and as a result their refuse and recycling stores are located on the ground floor in each building. Access is provided by internal lifts within the building. Each of the storage areas will be locked and only accessible by residents and the Facilities Management Team (FMT).
- 6.1.4 Each storage area has been designed to incorporate the design requirements as set out in LBRuT's *Refuse and Recycling Storage Requirements SPD* (2015). These design measures include:
  - No waste will be stored on the public highway;
  - Household waste and recycling is stored separately from non-residential waste;
  - Pairs of recycling bins will be sited together so that residents can easily access both streams of recycling;
  - Recycling bins will also be located alongside refuse bins so residents can easily access both bins;
  - Clear labels to illustrate where different recyclables and waste materials should be deposited;
  - Sufficient clearance to allow full opening of bin lids;
  - 2m width of access threshold to allow for removal and return of containers whilst servicing; and
  - 900mm clearance space in front of each waste storage container to allow access to use each.
- 6.1.5 It is proposed that all ground floor bin stores will also include the following features:
  - A water supply and a trapper gully to allow for regular cleaning;
  - Permanently ventilated;
  - Minimum headroom of 2.2m; and
  - Level with the adjacent path or highway.

#### Servicing

- 6.1.6 Household waste arising from the Development Area 1 will be collected twice a week by LBRuT. This approach was agreed by LBRuT's waste team.
- 6.1.7 The Facilities Management Team and LBRuT waste team will liaise to coordinate the refuse & recycling collection process and agree the collection days / times and process. On the specified collection day, the Facilities Management Team will move the appropriate bins from the storage area(s) on the Basement Level to the Refuse Stores located on the Ground Floor. The Refuse Stores will be locked and will only be accessible to the Facilities Management Team.
- 6.1.8 To clarify, the Refuse Stores on the Ground Floor are allocated to the following buildings:



- Building 3 Refuse & Recycling Store is for Buildings 2 and 3;
- Building 8 Refuse & Recycling Store is for Buildings 7 and 8;
- Building 12 Refuse & Recycling Store is for Buildings 11 and 12; and
- Building(s) 4, 5, 6, 9 and 10 do not have access to the Basement Level and so their Refuse Stores are located on the Ground Floor.
- 6.1.9 The Facilities Management Team will provide a highly managed service and will rotate bins within the Refuse Stores on the basement levels to avoid overflowing bins. The bins will be transported between the basement levels to ground floor levels via a dedicated bin lift which operates from the Refuse Collection Storage Rooms directly into the appropriate Refuse & Recycling Holding Store by the Facilities Management Team. The Facilities Management Team will be responsible for taken out and replacing the bins from the Refuse & Recycling Holding Stores to the collection point, at the agreed time of collection. The location of bin stores in the Basement and collection points at Ground Floor are shown in Appendix B.
- 6.1.10 Figure 6.1 shows the typical arrangement of the Ground Floor refuse storage room. Notably for all storage rooms the rooms will not be accessed by residents and only used by the Facilities Management Team to store bins on collection day and can therefore be stored close to each other.

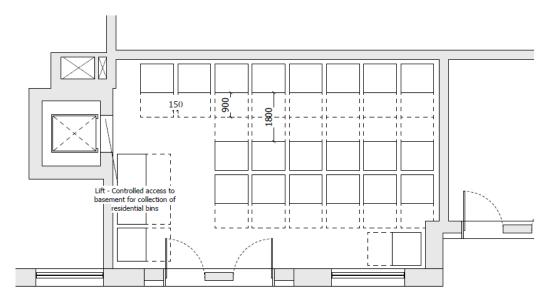


Figure 6-1: Indicative Waste Storage Room on Ground Floor

- 6.1.11 The majority of collection points within this phase of the development will be located within 20m from where the rear of the refuse lorry can safely stop, as required by LBRuT. However, the collection point for building 4 will be 27m, due to site constraints with level differences of the surrounding carriageway. This has been agreed with LBRuT as part of pre-application discussions on previous applications.
- 6.1.1 The goods lift will be large enough to accommodate at least one waste container and a member of the Facilities Management Team. The lift doors and adjacent corridors will also provide sufficient space so that waste containers can be easily manoeuvred, as required by LBRuT.



### Non-Residential Use

#### **Waste Container Requirements**

- 6.1.2 The non-residential waste will be stored in each individual outlet and stored separately from the residential waste stores in Development Area 1. Sufficient space will be provided to store the minimum number of separate containers and to enable the separation of general waste and recyclable waste.
- 6.1.3 The specific size of these areas will be dependent on both the commercial operation itself, and the frequency the operators wish to have their waste and recycling collected. The waste storage space for this waste will be developed following confirmation of the commercial tenants.
- 6.1.4 Furthermore, the frequency of collection will be determined at a later date following discussions with the appointed waste collection contractors.
- 6.1.5 It is expected that the detailed waste arrangements for these units would be secured via planning condition.

#### **Storage of Waste**

- 6.1.6 As mentioned above the designated non-residential storage areas in Development Area 1 will be contained within each unit.
- 6.1.7 All material will be contained within the dedicated containers to avoid amenity issues associated with litter and vermin.

#### Servicing

- 6.1.8 Businesses have a duty of care of ensuring that their waste is collected and disposed of appropriately and an obligation (through the Waste Regulations as amended 2013) to adhere to the principles of the waste hierarchy. The non-residential waste is likely to be collected by private contractors working in the area or through the LBRuT's trade waste and recycling service. Each business will contract a waste collection service that is appropriate to their needs.
- 6.1.9 Refuse and recycling waste will be collected by a dedicated waste contractor(s). Following their appointment, specifics relating to material separation and frequency of collection will be refined and finalised.
- 6.1.10 The collection days /times can be specified with the contractor to make sure they do not conflict with the household waste collection.

#### 6.2 Application A – Development Area 2

#### **Residential Use**

#### Waste Container Requirements

6.2.1 Table 6.2 presents the indicative number of bins that would be required for the collection of household waste of the residential units within Development Area 2. These estimations have been based on the assumption of two waste collection per week, as discussed with LBRuT.



Building Number	Capacity Requirement (litres)	Indicative Number of 1100 litre bins for refuse based on collection twice a week	Indicative Number bins for recycling based on collection twice a week
13	4,830	2	4 x 1100 litre bins
14	4,340	2	4 x 1100 litre bins
15	10,150	5	6 x 1100 litre bins
16	7,350	3	6 x 1100 litre bins
17	7,840	4	6 x 1100 litre bins
18	21,980	10	6 x 1100 litre bins
19	7,000	3	4 x 1100 litre bins

Table 6-2: Estimated Container Requirements - Household Waste - Application A - Development Area 2

- 6.2.2 In accordance with LBRuT's collection practices, the storage requirements for the 12 x 3-bed and 11 x 4-bed townhouses (blocks 20 and 21) are as follows:
  - General Refuse Bin (360 litre);
  - Black Box: for plastic bottles, pots, tubs, trays, tins, unbroken glass and aerosols (55 litres);
  - Blue Box: for papers and cardboard (55 litres); and
  - Food Waste Container (23 litres)
- 6.2.3 The waste storage space for the proposed residential units in Development Area 2 will be developed once this phase reaches detailed design stage via Reserved Matters submissions and following further consultation with LRRuT.
- 6.2.4 Following discussions with LBRuT, suitable space for the storage of bulky waste will also be incorporated within the detailed design of the flats to alleviate problems created by fly-tipping. It is recommended that space will be sufficient enough to store a bulk waste storage container which conforms to British Standard BS EN 840: 1997, as required by LBRuT.

#### **Storage of Waste**

- 6.2.5 The proposed residential units in Development Area 2 will continue to be developed to meet LBRuT's storage and collection arrangement.
- 6.2.6 Following discussions with LBRuT, it has been proposed that all of the flats, comprising affordable housing, will have their waste storage areas located on the ground floor in each building. This design decision was raised by LBRuT in case there will not be a Facilities Management Team present to coordinate the management and movement of household bins from the basement levels to ground floor levels in the affordable housing units.



- 6.2.7 Flats located in buildings 13, 15, 16 and 17 will have bin stores located in the basement and the FMT will move the bins on collection day to a single location located on Ground Floor of building 16.
- 6.2.8 The following bin storage parameters have been considered for the townhouses and will continued to be discussed at detailed design:
  - Waste will not be stored on the public highway;
  - Household waste and recycling is stored separately from non-residential waste;
  - The provision of space for storing recyclable and non-recyclable waste, including food waste, when designing kitchens and utility rooms; and
  - Space will be provided so that food waste containers can be presented within the property boundary and visible from the kerbside on the designated collection day.
- 6.2.9 The following bin storage parameters have been considered for the communal waste stores and will continued to be discussed at detailed design:
  - Pairs recycling bins will be sited together so that residents can easily access both streams of recycling;
  - Recycling bins will be located alongside refuse bins so residents can easily access both bins;
  - Waste will not be stored on the public highway;
  - Household waste and recycling is stored separately from non-residential waste;
  - Sufficient space will be provided to store the minimum number of separate containers to which to store refuse and recycling and allow access to all containers;
  - Clear labels to illustrate where different recyclables and waste materials should be deposited;
  - The waste stores will include; a water supply and a trapper gully to allow for regular cleaning, natural ventilation, minimum headroom of 2.2m and be level with the adjacent path or highway;
  - Sufficient clearance to allow full opening of bin lids;
  - 2m width of access threshold to allow for removal and return of containers whilst servicing; and
  - 900mm clearance space in front of each waste storage container to allow access to use each.

#### Servicing

- 6.2.10 Household waste arising from Development Area 2 will be collected weekly by LBRuT, which was agreed by LBRuT's waste team.
- 6.2.11 The storage areas for all residential dwellings in Development Area 2 will be positioned so that the occupiers are not required to carry refuse or recycling more than 30 meters from an external door. Furthermore, at detailed design stage consideration will also be given to access for disabled persons, where applicable.



6.2.12 Since this part of the planning application is outline the servicing WMP will be developed at detailed design via Reserved Matters submissions.

## 6.3 Application B – School

#### Waste Container Requirements

- 6.3.1 Table 6-3 presents the indicative number of bins that would be required for the collection of school waste from the proposed development.
- 6.3.2 The estimated waste container requirements for the school is indicative only. The actual provision for school waste will be dictated by the incoming tenants/occupiers and their waste contractors.

Use	Capacity Requirement (litres)	Indicative Number of 1100 litre bins for refuse based on weekly collection	Indicative Number of 1100 litre bins for recycling based on weekly collection
School	15,240	7	7

Table 6-3: Estimated Container Requirements - Application B - School

#### Storage of Waste

- 6.3.3 The storage areas for the school will be locked and only accessible to the school and the Facilities Management Team.
- 6.3.4 All material will be contained within the dedicated containers to avoid amenity issues associated with litter and vermin.
- 6.3.5 The location of the school waste collection and swept path analysis is included in Appendix C.

#### Servicing

- 6.3.6 Refuse and recycling waste will be collected by a dedicated commercial waste contractor(s). Following their appointment, specifics relating to material separation and frequency of collection will be refined and finalised at a later date following discussions with the appointed waste collection contractors.
- 6.3.7 It is proposed that refuse vehicles will be able to utilise the bus parking spaces adjacent to the main entrance outside school opening and closing hours. These spaces are adjacent to external bin store/recycling area as well as entrance doors. This will allow ease of waste disposal.
- 6.3.8 The collection days/times can be specified with the contractor to make sure they do not conflict with the household waste collection and school opening and closing hours.

## 7 Summary

## 7.1 Introduction

- 7.1.1 Waste generated on Site through the occupation of the proposed development will be managed in an appropriate and sustainable way. It will follow the principles of the Waste Hierarchy *'eliminate, reduce, reuse, recycle'* to enable the environmental, social and economic risks from waste to be reduced and national and local policy aspirations to be supported.
- 7.1.2 Both adopted and emerging local guidance documents have been taken into consideration throughout the development of this WMP. The main operational waste management targets that apply to this development, include:
  - Accordance with the Waste Hierarchy;
  - To increase the recycling and composting of municipal waste by 65% by 2030; and
  - To increase the recycling, composting and reuse of C&I waste by 70% by 2020.

## 7.2 Application A - Development Area 1

## **Residential Use**

- 7.2.1 It is estimated that the occupation of the residential use of Development Area 1 would generate approximately of 80,780 litres of waste per week, which has been based upon the guidance outlined in LBRuT's *Refuse and Recycling Storage Requirement* (SPD) for residual waste and recycling capacity for residential waste.
- 7.2.2 The designated refuse areas for household waste have been designed to store the number of separate bins outlined in Table 6-1 and are large enough to all access to all containers for residents and the Facilities Management Team. Furthermore, these designated areas ensure that the residential and non-residential waste from Development Area 1 is stored and collected separately.
- 7.2.3 Residents occupying units in Development Area 1 are required to take their waste and recycling to the Basement Level of their building within the development, where the designated refuse areas for household waste will be located. Each of the storage areas will be locked and only accessible by residents and the Facilities Management Team.
- 7.2.4 Household waste from the Development Area 1 will be collected twice a week by LBRuT. This approach was agreed by LBRuT's Waste Team, on 29<sup>th</sup> November 2017. The Facilities Management Team and LBRuT waste team will liaise to coordinate the refuse & recycling collection process and agree the collection days / times and process. On the specified collection day, the Facilities Management Team will move the appropriate bins from the storage area(s) on the Basement Level to the 'Refuse & Recycling Collection Stores' located on the Ground Floor.

## Non-Residential Use

- 7.2.5 The estimated waste arising for the non-residential units summarised in this WMP are indicative only. The actual provision for non-residential waste will be dictated by the incoming tenants/occupiers and their waste contractors.
- 7.2.6 To note, the non-residential waste will be stored in each individual outlet and stored separately from the residential waste stores in Development Area 1. The specific size of these areas will be dependent on both the commercial operation itself, and the frequency the operators wish to



have their waste and recycling collected. The waste storage space for this waste will be developed following confirmation of the commercial tenants.

7.2.7 Furthermore, the frequency of collection will be determined at a later date following discussions with the appointed waste collection contractors.

### 7.3 Application A – Development Area 2

## **Residential Use**

- 7.3.1 It is estimated that the occupation of the residential use of Development Area 2 would generate approximately 70,330 litres of waste per week, which has been based upon the guidance outlined in LBRuT's *Refuse and Recycling Storage Requirement* (SPD) for residual waste and recycling capacity for residential waste. To note, this figure is indicative only and will be subject to change once the actual mix of housing is confirmed at Reserved Matters.
- 7.3.2 In comparison to Development Area 1, the household waste from Development Area 2 will be collected once a week by LBRuT. This arrangement was agreed by LBRuT's Waste Team on 29<sup>th</sup> November 2017 due to the proportion of affordable housing in this Development Area. This collection agreement will be discussed further with LBRuT following confirmation of the fixed mix of housing.
- 7.3.3 There will also be space provision for the storage of food waste for the townhouses in this Development Area and an appropriate area for the storage of bulky waste to alleviate problems created by fly-tipping.
- 7.3.4 To note, the proposed residential units in Development Area 2 will continue to be developed to meet LBRuT's storage and collection arrangement.

#### 7.4 Application B – School

- 7.4.1 It is estimated that the operation of the school will generate approximately 15,240 litres of waste per week, based on a pupil intake of 1,200. The estimated waste volumes and container requirements for the school is indicative only. The actual provision for school waste will be dictated by the incoming tenants/occupiers and their waste contractors.
- 7.4.2 Refuse and recycling waste will be collected by a dedicated commercial waste contractor(s). Following their appointment, specifics relating to material separation and frequency of collection will be refined and finalised at a later date following discussions with the appointed waste collection contractors.



## Appendix A Correspondence with LBRuT Waste Team





Subject: Stag Brewery Meeting Notes with LBRuT (29.11.17)

Date: 29<sup>th</sup> November

Attendees: Natalie Maletras, Richard Mallet, Kathleen Hallquist, Emma-Mai Eshelby, Roland

Copley, Rita Csonka and Lucy Thatcher

#### Waste Collection

- Waste collection is weekly collections in Mortlake
- Waste and recycling will be collected on the same day
- The development is to likely be the first stop on the waste collection route, due to the volume of waste required to be collected from the site.
- Waste contract will be renewed in 1 year

#### Phase 1 - Detailed Component

- Waste storage facilities for the residential uses are to be located within the underground car park
- An estate management company will be responsible for transferring waste from the underground stores to the surface for collection at specific collection points – this will be a highly managed scheme
- Waste and recycling will be collected on the same day, with two collections per week to be made. The cost will be 50% of the cost of commercial waste collection services, although LBRuT will confirm
- Commercial waste collection will be subject to a separate regime but will be controlled by the management company to ensure that it operates efficiently and that collections are timed to avoid peak traffic hours

#### Phase 2 – Outline Component

- This will less likely to be managed by Facilities Management
- It is recommended that waste storage facilities for residential uses are to be located within ground floor stores. No residential waste will be stored within the underground car parks
- Waste will be collected weekly

#### **Care Home and Health Care Facilities**

- Care home and health care units will be collected as commercial waste. Collection will be agreed at a later date
- Estimated storage facilities for assisted living units will be based on LBRuT's waste storage capacity for residential units
- Clinical waste needs to be considered for all units. Storage and collection of clinical waste will be considered at detailed design

#### Food Waste

 Currently, there is no requirement for food waste collection for flats in Mortlake. Only townhouses in Phase 2 have a requirement for storage of food waste – this will be incorporated into design codes





## NOTES

• Recommended that there is sufficient storage within Phase 1 and 2 for the storage of food waste to accommodate this, if this becomes a requirement when the scheme is within operation

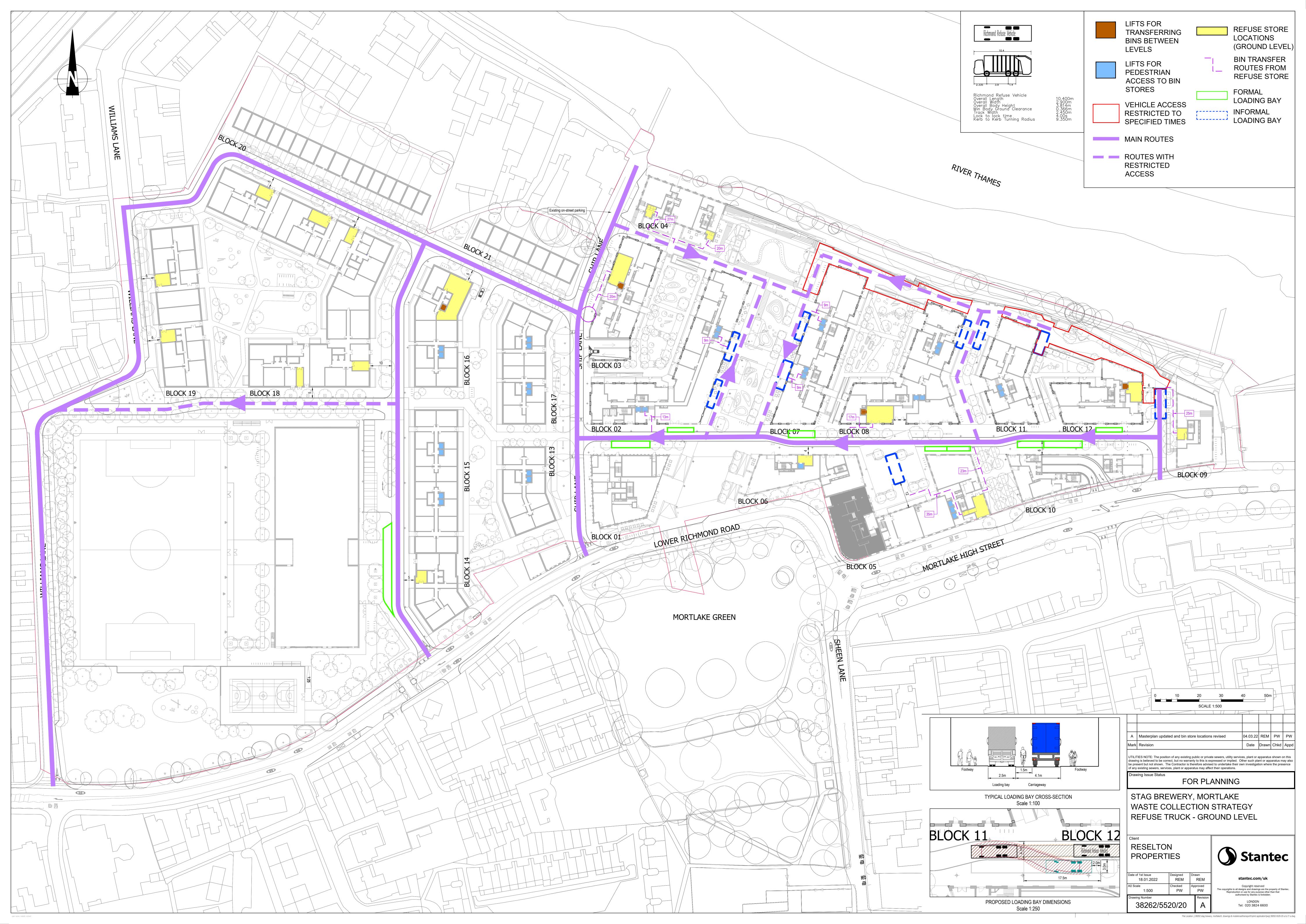
#### Bulky Waste

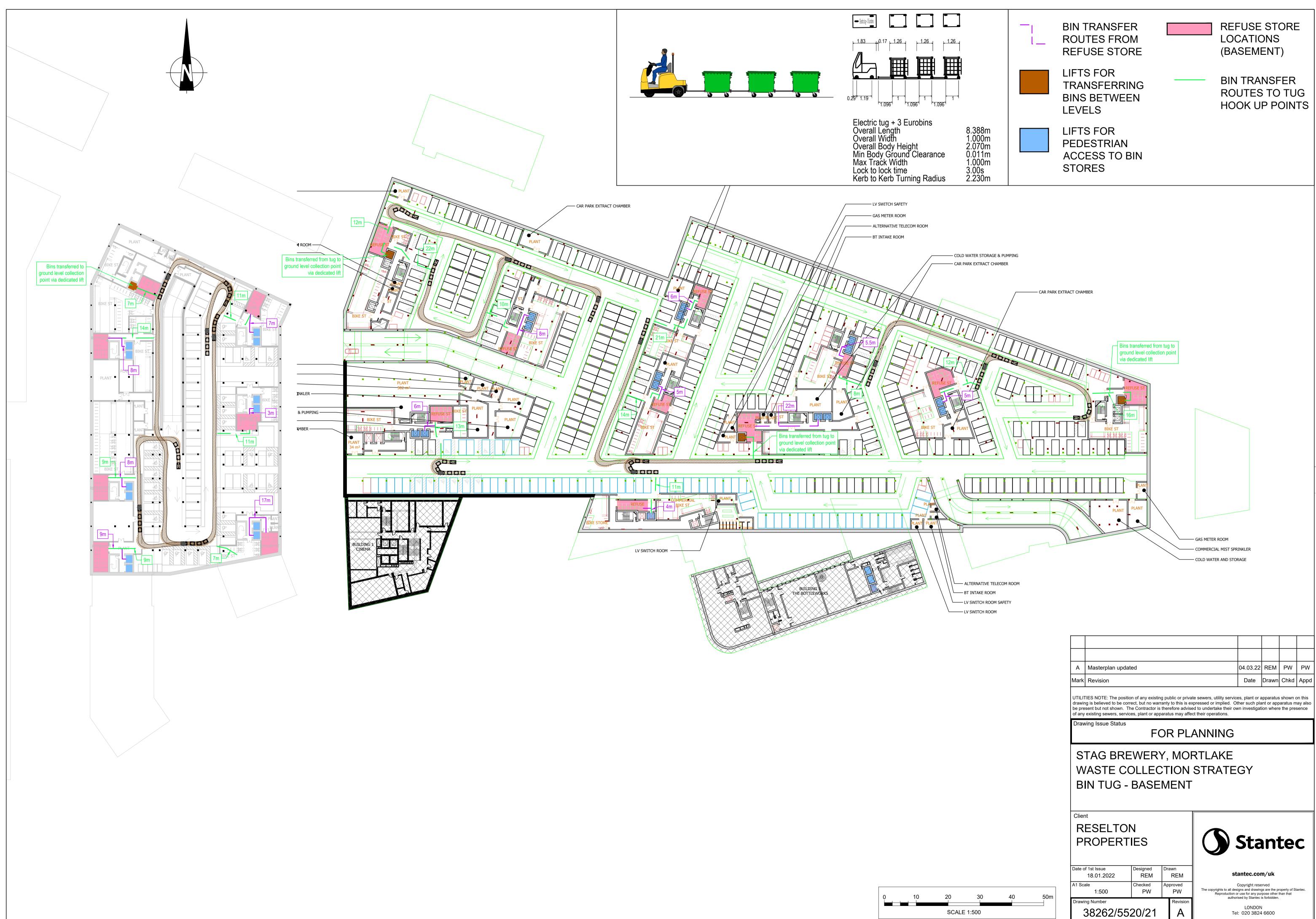
- There is no specific requirement for the storage of bulky waste
- LBRuT recommend that there is a holding area for bulky waste within one of the ground floor waste stores in Phase 2 of the development
- LBRuT offers chargeable collection of bulky goods





## Appendix B Servicing Routes & Waste Storage Locations





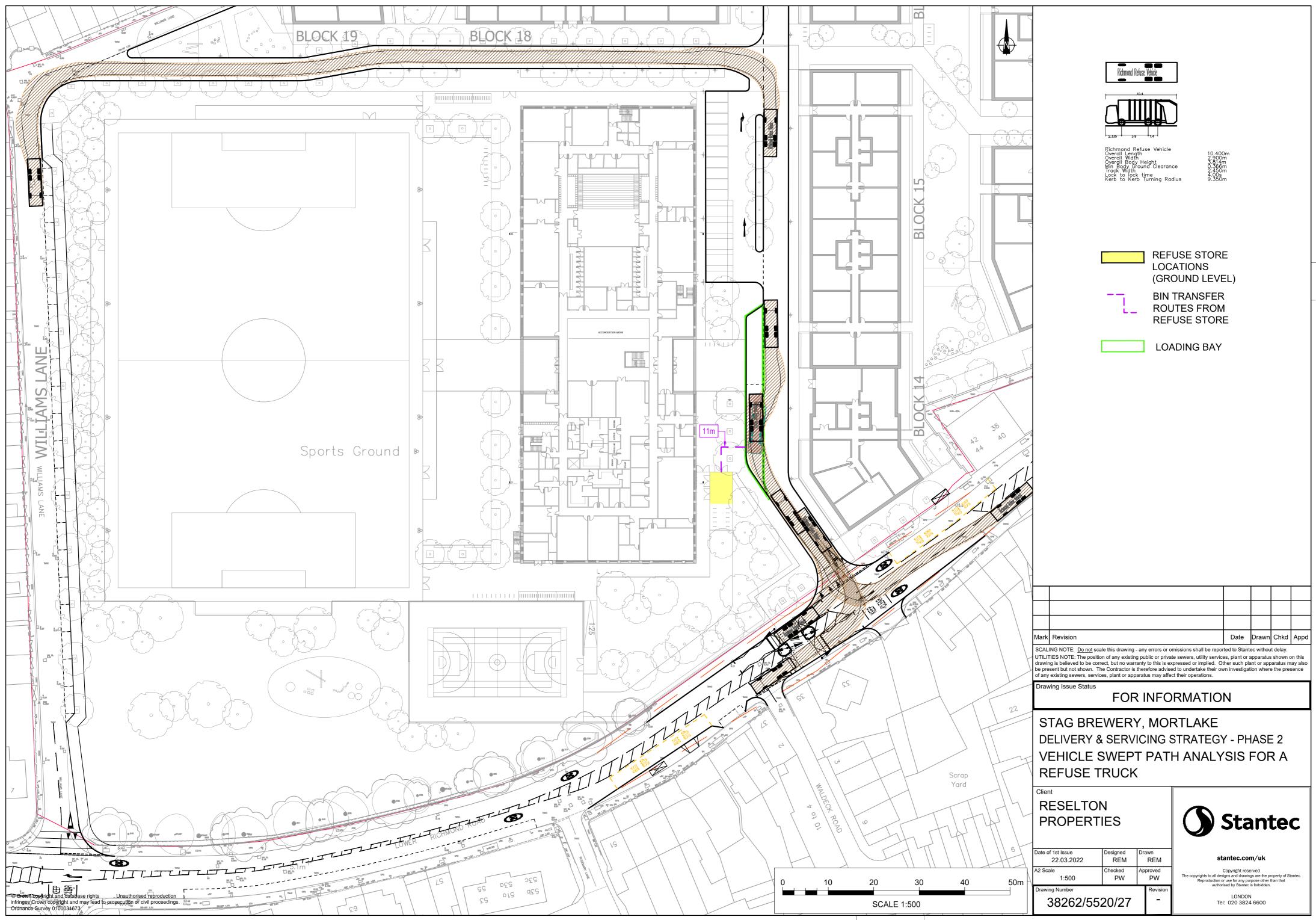
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## Appendix C School Waste Collection



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