

## **ADDENDUM TO THE SITE WIDE WASTE MANAGEMENT STRATEGY**

### **PREFACE**

This document provides an overview of the updates to the Site Wide Waste Management Strategy arising from the following changes:

- Revised Masterplan Schedule of Accommodation v19
- Revised First Development Site Schedule of Accommodation rev J

As a result of the above changes, the Comprehensive Development proposed comprises the following, at maximum:

- Up to 3,575 Residential Dwellings;
- 2,500 sqm of Business space / Employment use;
- 3,000 sqm of Retail or Workspace;
- 500 sqm of Retail;
- 263 sqm of Community / Leisure Use; and
- 4,750 sqm Health / Community / Early Years.

This document should be read in conjunction with the original report submitted in October 2014.

## **CONSTRUCTION WASTE STRATEGY**

### **Construction Waste**

The Site Wide Waste Management Strategy included calculations of estimated construction waste arisings from both the FDS Application and Masterplan Application. These were based on Gross Internal Areas (GIAs) for the buildings and the applicable waste benchmarks from the Building Research Establishment (BRE). As the GIAs for a number of the Blocks have been revised, the construction waste calculations also required amendment.

Table 1 shows the revised estimated construction waste arisings for the FDS Application which were provided in Table 3.3 in the previously submitted report.

**Table 1: Revision to estimated construction waste arisings (FDS Application)**

Block	No. of units	Gross Internal Area (GIA) (m <sup>2</sup> )*	Tonnes/ 100m <sup>2</sup> floor area (BRE)	Construction waste (tonnes)*
1A	50	5,240	16.8	880
1C	41	3,377	16.8	567
1D	24	2,384	16.8	401
<b>Sub-total</b>	<b>115</b>	<b>11,001</b>	-	<b>1,848</b>
2A	7	782	16.8	131
2B	27	3,753	16.8	631
<b>Sub-total</b>	<b>34</b>	<b>4,535</b>	-	<b>762</b>
3A	20	2,723	16.8	457
3B	20	1,853	16.8	311
<b>Sub-total</b>	<b>40</b>	<b>4,576</b>	-	<b>769</b>
4A	92	8,235	16.8	1,383
4B	48	5,182	16.8	871
4C	26	2,586	16.8	434
4D	36	4,210	16.8	707
4E	19	1,757	16.8	295
<b>Sub-total</b>	<b>221</b>	<b>21,970</b>	-	<b>3,691</b>
5A	80	6,570	16.8	1,104
5B	14	1,621	16.8	272
5C	45	4,433	16.8	745
5D	33	3,058	16.8	514
5E	65	6,467	16.8	1,086
<b>Sub-total</b>	<b>237</b>	<b>22,149</b>	-	<b>3,721</b>
6A	64	5,403	16.8	908
6B	35	3,499	16.8	588
6C	31	3,028	16.8	509
6D	53	4,998	16.8	840
<b>Sub-total</b>	<b>183</b>	<b>16,928</b>	-	<b>2,844</b>
<b>Total Residential</b>	<b>820</b>	<b>81,857</b>	-	<b>13,635</b>
1B (Community Centre)		263	22.4	59
<b>TOTAL</b>		<b>82,120</b>	-	<b>13,694</b>

Source: AES Planning (03/02/2015) Revised Planning Application February 2015 Rev J

The revised estimation shows that 13,694 tonnes of waste may arise from construction of the FDS Application, which is 444 tonnes less than the 14,138 tonnes estimated in the previously submitted report. This is due to the overall decrease in GIAs.

Table 2 shows the revised estimated construction waste arisings for the residential elements of the Masterplan Application, based on indicative floor areas and the applicable BRE waste benchmarks. These were provided in Table 3.4 in the previously submitted report.

**Table 2: Revision to estimated construction waste arisings (Masterplan Application - residential)**

Description	Indicative no. of units	Indicative total floor area (m <sup>2</sup> )	Tonnes/ 100m <sup>2</sup> floor area (BRE)	Construction waste arisings (tonnes)*
Target Rent	1,014	80,756	16.8	13,567
Shared Ownership	376	27,146	16.8	4,561
Private Sale	1,343	110,749	16.8	18,606
<b>Total</b>	<b>2,733</b>	<b>218,651</b>	-	<b>36,733</b>

Source: HTA (12/02/2015) *Masterplan Schedule of Accommodation v19*

\* Figures have been rounded.

The revised estimations show that, when added to the 1,057 to 2,622 tonnes of construction waste from the non-residential elements<sup>1</sup>, 37,790 to 39,355 tonnes of waste may arise from construction of the Masterplan Application, based on the above indicative floor area ranges. This is slightly more than the 36,996 to 38,561 tonnes estimated in the previously submitted report and due to the overall increase in indicative floor areas.

In combination, the Comprehensive Development may generate 51,484 to 53,049 tonnes of construction waste collectively, which is slightly more than the 51,134 to 52,699 tonnes estimated in the previously submitted report.

The increase is not considered significant and the mitigation measures detailed in the previously submitted report remain valid.

## OPERATIONAL WASTE STRATEGY

### Generation of Household Waste

Household waste generation from the Comprehensive Development was estimated using Defra municipal waste statistics and LBS data.

It should be noted that since the submission of the previously submitted report, updated waste statistics have been published for 2013-14. The revised figure is shown in Table 3.

<sup>1</sup> There are no changes to the indicative floor area ranges for the non-residential uses; therefore, this tonnage range remains the same as that provided in the previously submitted report.

**Table 3: Revision to average household waste generation for LBS**

Total household waste generated within Southwark in 2013-14 (tonnes) <sup>2</sup>	109,236
Total number of households within LBS boundary <sup>3</sup>	126,491
Estimated mean waste generation per household per annum (tonnes)	0.86

The figure for estimated mean waste generation per household per annum has increased slightly from 0.84 tonnes to 0.86 tonnes.

A revised estimate of the waste arisings from the future residents of the Comprehensive Development is provided in Table 4. This was outlined in Table 4.3 of the previously submitted report.

**Table 4: Revision to estimated household waste arisings**

Description	No. of units	Estimated mean waste generation per household per annum (tonnes)	Tonnes per annum*	Tonnes per week*
FDS Application	830	0.86	714	14
Masterplan Application	Up to 2,733		Up to 2,350	Up to 45
<b>Comprehensive Development</b>	<b>Up to 3,563</b>		<b>Up to 3,064</b>	<b>Up to 59</b>

\* Figures have been rounded

The revised estimations show that the Comprehensive Development could potentially generate up to 3,064 tonnes of household waste per annum (up to 59 tonnes per week) should all units be constructed and occupied. This is 74 tonnes per annum more than the 2,990 tonnes per annum estimated in the previously submitted report.

The increase is not considered significant and the mitigation measures detailed in the previously submitted report remain valid.

### Household Waste Storage Requirements

Household waste storage requirements at the FDS Application have been quantified based on the formulas within LBS's *Waste Management Guidance Notes for Residential Developments*.<sup>4</sup>

As the total number of residential units has been increased, Table 5 outlines the revised waste storage capacity requirements for the elements of the FDS Application that will have communal bin stores. These were provided in Table 4.4 in the previously submitted report.

<sup>2</sup> Defra (2015) ENV18 - Local authority collected waste: annual results tables  
<https://www.gov.uk/government/statistical-data-sets/env18-local-authority-collected-waste-annual-results-tables>

<sup>3</sup> Office for National Statistics: Neighbourhood Statistics: Southwark: Housing

<sup>4</sup> LBS (2014) *Waste Management Guidance Notes for Residential Developments (February 2014)*  
[http://www.southwark.gov.uk/downloads/download/2589/waste\\_management\\_guidance\\_notes\\_for\\_residential\\_properties](http://www.southwark.gov.uk/downloads/download/2589/waste_management_guidance_notes_for_residential_properties)

**Table 5: Revision to communal waste storage capacity requirements - FDS Application**

Block	Total units	Total beds	Total weekly refuse (litres)	Recycling provision (litres)	Recycling provision (no. bins)	Residual provision (litres)	Residual provision (no. bins)	Total bins
1A	50	53	5,210	2,605	2.4	3,908	3.6	7
1C	37	44	4,190	2,095	1.9	3,143	2.9	5
1D	24	41	3,590	1,795	1.6	2,693	2.4	5
2A	7	7	700	350	0.3	525	0.5	2
3B	13	15	1,440	720	0.7	1,080	1.0	2
4A	92	129	11,790	5,895	5.4	8,843	8.0	14
4B	34	71	5,990	2,995	2.7	4,493	4.1	8
4C	22	32	2,900	1,450	1.3	2,175	2.0	4
4D	32	76	6,280	3,140	2.9	4,710	4.3	8
4E	17	25	2,260	1,130	1.0	1,695	1.5	3
5A	80	112	10,240	5,120	4.7	7,680	7.0	12
5B	12	20	1,760	880	0.8	1,320	1.2	3
5C	30	42	3,840	1,920	1.7	2,880	2.6	5
5D	29	39	3,600	1,800	1.6	2,700	2.5	5
5E	48	87	7,530	3,765	3.4	5,648	5.1	10
6A	60	84	7,680	3,840	3.5	5,760	5.2	10
6B	31	50	4,430	2,215	2.0	3,323	3.0	5
6C	26	42	3,720	1,860	1.7	2,790	2.5	5
6D	41	71	6,200	3,100	2.8	4,650	4.2	8
<b>Total</b>	<b>685*</b>	<b>1,040</b>	<b>93,350</b>	<b>46,675</b>	<b>42.4</b>	<b>70,013</b>	<b>63.6</b>	<b>121</b>

\* 685 of the 830 residential units will have communal waste stores. The remainder have individual waste storage.

The overall number of bins required for the FDS Application has not changed; though there have been slight amendments to some of the individual Blocks.