

## DRAINAGE & FLOOD RISK CONSULTATION

**PROJECT: FORMER WEALDEN BRICKWORKS, LANGHURSTWOOD ROAD,  
HORSHAM, WEST SUSSEX, RH12 4QD - WSCC/015/18/NH**

<b>Reference:</b>	WSCC/015/18/NH	<b>Recommendation:</b>		
<b>Revision:</b>		<b>Insufficient Information:</b>	<b>Objection:</b>	<b>No Objection:</b>
<b>Date:</b>	10 April 2018			X

### 1 INTRODUCTION

- 1.1 West Sussex County Council (WSCC) has reviewed the information provided in respect of drainage & flood risk for the above proposed development.
- 1.2 We can confirm that there is **No Objection** for the scheme with regards to the drainage and flood risk proposals. Clarification is sought, however, on the technical queries in relation to the proposals set out in Section 3, below.
- 1.3 Please refer to section 6 for the summary and conditions.

### 2 FLOOD RISK

- 2.1 The site is located within Flood Zone 1 as defined on The Environment Agency mapping.
- 2.2 The proposals are for Recycling, Recovery and Renewable Energy Facility and Ancillary Infrastructure. The post development classification is compatible to flood zone 1.
- 2.3 The developable site area is 3.8Ha in size; a site specific Flood Risk Assessment (FRA) has been provided and reviewed by the LLFA.
- 2.4 WSCC is not aware of any historic flooding and/or drainage problems at the site.
- 2.5 The LPA is not aware of any historic flooding and/or drainage problems at the site.
- 2.6 A review of all sources of flooding concludes that there are some areas of the site with a low to medium risk of surface water flooding, however given the historic and post development use this is considered to be an overall low risk.

### **3 SURFACE WATER**

- 3.1 An updated drainage strategy (Revision P05) has been supplied by RPS Group 13/03/18 and the LLFA's comments are set out below.
- 3.2 The LLFA concurs with the proposal to restrict discharge to 14.9 l/s (QBar) for the 1:100 year return period with a 20% additional allowance for future climate change and the betterment afforded by this arrangement is welcomed.
- 3.3 The LLFA previously requested, a plot to indicate the extent of temporary overland flooding indicate depth as well as extent for a 1% AEP + 40% exceedance event. Paragraph 5.2.5 of the Drainage Strategy refers to a Temporary Overland Flood Volumes Plan drawing NK018074-RPS-EFWXX-DR-D-0302 on which volume, depth and location information is shown. While the text indicates that this has been included in Appendix IV of the Strategy, a copy could not be located. Please can one be provided?
- 3.4 On p12 of Appendix V, it is noted that a safety factor of 2.0 has been used with respect to the Permeable Paving. Given that the infiltration area is 1027.5 m<sup>2</sup>, Table 25.2 from the SuDS manual indicates that a safety factor of 3 should be used. It is, therefore, recommended that the simulation be re-run using the recommended safety factor.
- 3.5 Paragraph 4.5.9 of the Drainage Strategy states: Alternative pollution mitigation systems to the SuDS treatment train may be provided during the construction period, with the prior formal approval of the LLFA. LLFA would welcome early discussion at detailed design if there is any likelihood of divergence from the approved drainage strategy. We would also wish to be appraised of further details of what will be stored in the storage / recycling area.

### **4 FOUL WATER**

- 4.1 All outstanding concerns in relation to the proposed foul drainage strategy have been addressed.

### **5 SUMMARY & CONDITIONS**

- 5.1 The LLFA concurs with the proposal to restrict surface discharge to 14.9 l/s (QBar) for the 1:100 year return period with a 20% additional allowance for future climate change and the betterment afforded by this arrangement is welcomed.
- 5.2 The applicant is requested to respond to the technical queries outlined in paragraphs 3.3 to 3.5 in relation to surface water drainage.
- 5.3 The LLFA has no objection to the proposed foul drainage strategy.

#### **R C Drabble**

Flood Risk Engineer (Sustainable Drainage)  
Residents' Services – Highways and Transport  
West Sussex County Council