

Technical Note

INTRODUCTION

- 1.1 This document provides information in response to the letter received from Hampshire County Council (Ref. SWM/2019/0310) in relation to the planning application Ref. 19/00403, which has been submitted for the provision of a temporary construction access to serve the Berewood development.
- 1.2 Hampshire has requested the following information:
- Evidence that the applicant understands the **sensitivity of discharge points** relating to the receiving water body. Where this is main river or discharging through contaminated land the LPA may have to consult the Environment Agency (EA)
 - **Maintenance regimes** of the entire surface water drainage system including individual SuDS features, including a plan illustrating the organisation responsible for each element. **Evidence** that those responsible/adopting bodies are in discussion with the developer. For larger/phased sites, we need to see evidence of measures taken to protect and ensure continued operation of drainage features during construction.
 - Exceedance flows are considered in the event of the pipe being non-operational. Evidence that Exceedance flows and runoff in excess of design criteria have been considered - calculations and plans should be provided to show where above ground flooding might occur and where this would pool and flow.

First Item

- 1.3 In response to the first item, drainage for the haul road will form and be part of the overall drainage provision for the Berewood development. Document Ref. *Newlands, Waterloooville Hampshire – Proposed Outline SUDS Strategy Statement*, which was issued as part of the outline planning application for the Berewood development. The report sets out the principals which would be applied to the SuDs design including allowable discharge rates, catchment distribution, proposed SuDs features and pollution control. The above document has been informed by recommendations in the Site Wide Flood Risk Assessment. A copy of the report has been included in Appendix A.
- 1.4 The drainage strategy for each phase of the Berewood scheme has been developed in line with the above referred *Proposed Outline SuDs Strategy Statement*. The drainage provision for the proposed Phase 8 haul road forms part of the overall drainage provision for the Phase 8 and Phase 3B development package. Document Ref. *Berewood Phase*

3B and 8 Infrastructure SuDS Design (Appendix B) contains the drainage proposals specific to the proposed Phase8/Phase3B development. The proposal include attenuation, stormwater storage and pollution prevention measures, exceedance measures, supporting calculations and maintenance regimes. This document forms part of a separate planning application for the SuDS and highway access provision for Phases 8 and 3B.

- 1.5 Dwg. GTWVILLE_P8/DR/02 (Appendix C) indicates the proposed drainage provision within and downstream of the haul road, which will be installed to ensure drainage accords with the Phase 3B/8 drainage strategy. It is likely the drainage within the haul road will be removed or revised to suit site development and will therefore be subject to a further planning application. Provision of the SuDs features downstream of the haul road will be constructed prior to construction of the haul road commencing.

Second Item

- 1.6 Consideration of the maintenance requirements for the surface water drainage provision is covered in Document Ref. *Berewood Phase 3B and 8 Infrastructure SuDS Design*.(Appendix B).

Third Item

- 1.7 Existing flow paths for Phase 8 can be seen in Figure 1.2 in Document Ref. *Berewood Phase 3B and 8 Infrastructure SuDS Design*. (Appendix B). Drawing Ref. *GTWVILLE8/DR/03* (Appendix C) shows the flows paths of flood water in the event of exceedance such as a blocked pipe.
- 1.8 The flood water will travel in one of two directions. The first is West into the phase 8 development where it will go back to its natural flow path and end up in the ditch located at the North of Phase 8. This will account for 55% of the water. The other 45% will flow East into London road. Here it will flow North with some of it crossing the carriageway due to the carriageway superelevation. The flood water will enter the drainage system through a series of combined drainage kerbs.
- 1.9 The volume of flooding for a 1 in 200 year storm event with a blocked pipe is estimated at 2m³ for a 15 minute storm duration and 20m³ for a 360 minute storm duration. The maximum flood discharge for a 15 minute storm is 4l/s. The calculations for this model can be seen in the calculations provided in Appendix D.
- 1.10 In order to limit the catchment flowing to London Rd during a flood/exceedance event, a temporary ditch will be provided along the south side of the haul road which will divert the water to an existing ditch.

Grainger plc

Phase 8 – Temporary Construction Access off A3 London Rd, Berewood

Response to HCC Queries – Letter Ref. SWM/2019/0310



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Date: 14th June 2019

APPENDIX A:

Doc Ref. Newlands, Waterloooville Hampshire – Proposed Outline SUDS Strategy Statement

APPENDIX B:

Document Ref. *Berewood Phase 3B and 8 Infrastructure SuDS Design*

APPENDIX C:
Drawings

APPENDIX D:

Calculations