

Flood Risk Assessment

Security improvements at Southern
Support and Police Training
Headquarters, Hamble Lane, Netley

November 2024

1 Introduction

This flood risk assessment has been written Hampshire County Council to support their client, the Office of Police and Crime Commissioner's proposed security improvements to their site.

1.1 Development Site

The proposed development site is located at Hampshire and Isle of Wight Constabulary's Southern Support and Police Training Headquarters, Hamble Lane, Netley, SO31 4TS.

1.2 Development Proposals

The development proposals for the above site are the installation of secure steel mesh security fencing to enclose the site, the installation of secure automated gates to the existing two vehicle entrances and the widening of the existing main entrance roadway to accommodate 2-way traffic along the entire length rather than the current single track and passing places arrangement.

The proposed development is therefore classified as major development simply due to the area covered being greater than 1 Ha. The site area is graded as wholly within flood zone 1. See Annex A for flood zone map.

The lifetime of the proposed development is assumed to be 60 years (commercial).

2.0 Sequential & Exception Tests

The development consists of alterations to an existing training facility so the sequential test is not appropriate for this application.

The exception test is not applicable to flood zone 1.

2.1 Site specific flood hazards

The proposed development site lies within Flood Zone 1 and is larger than 1 hectare in area with the only risk of flooding coming from a surface water source.

2.2 Tidal flooding

The lowest point of the widened roadway sits at an elevation of 16m and a distance of 1,900m from the shoreline. We would therefore conclude that there is no appreciable risk of tidal flooding.

2.3 Fluvial flooding

The nearest main watercourse with any risk of flooding is the Spear Pond gully, approximately 300m west of the Western entrance to the site off Hound Lane. The position and levels between the two preclude the risk of flooding to the site from this watercourse.

2.4 Surface water flooding

Most of the application site consists of soft landscaping where surface water is free to drain to ground. The only exception to this is the access road where there is a risk of surface water flooding where the road crossed the existing drainage culvert. See figure 1.

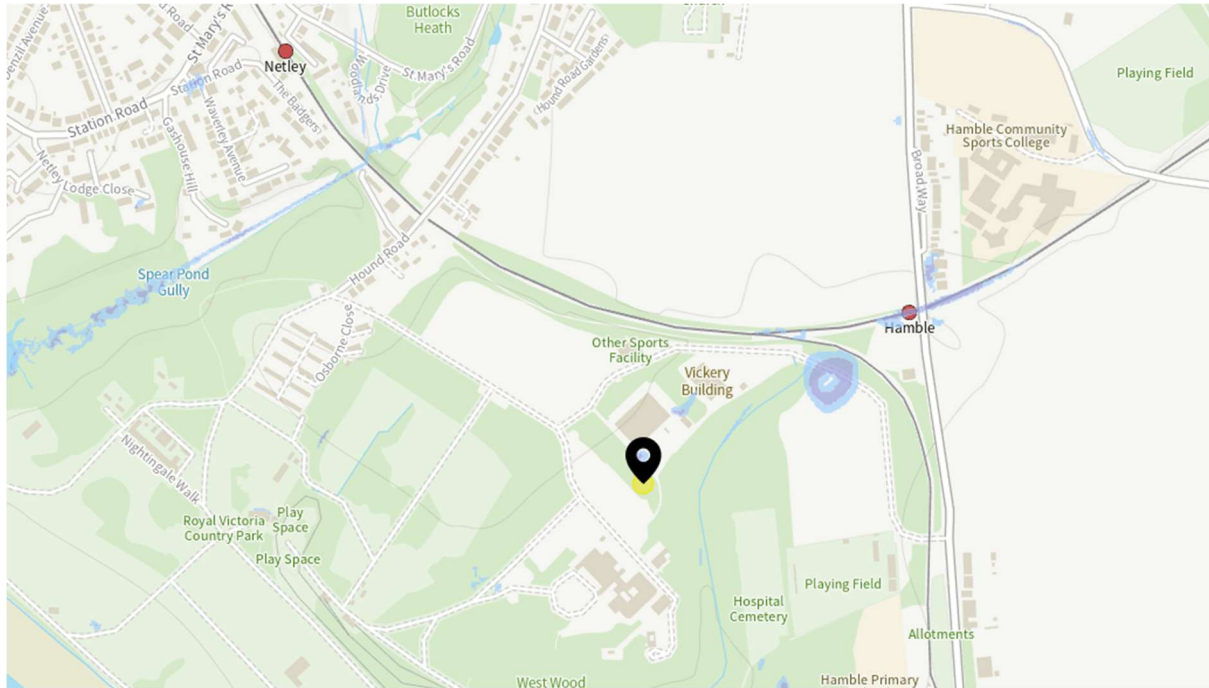


Figure 1 – Surface Water Flood Risk, 3% per year

The first 120m of the access road from Hamble Lane is served by buried surface water drainage connected to the local drainage system with the remainder draining to soft ground or to the natural gully East of Vickery Building (see site drawing).

2.5 Groundwater flooding

There is no risk from groundwater flooding across the development site. The lowest point of the development naturally drains to a watercourse.

3.0 Flood Risk Management

The development has a low risk of flooding. Of the 1.98 hectare site area, only 0.3 hectares will be non-permeable road surfaces. An increase of around 0.11 ha from the existing.

3.1 Flood control measures

The net gain in non-permeable surfaces comes primarily from widening the existing access road from a single lane with passing places to 2 lanes along the full length, net gain of approximately 1,142m² of new tarmac surface.

Permeable surfaces will be specified where possible for turning and waiting areas and the introduction of a French drain along part of the Northern edge of the road

(See proposed site drawing) will add to the water storage capacity adjacent to the carriageway, managing the flow rate to the watercourse.

3.2 Flood mitigation measures

There are no mitigation measures proposed for the development. The areas of roadway will be resistant to floodwater and naturally draining to soft ground or existing watercourses.

The most likely risk is surface water flooding along the primary access road. In the event of this occurring then the secondary entrance from Hound Lane will be used to maintain access to and from the site.

4.0 Conclusions

The development falls under the requirements of flood risk only due to the area covered. The majority of this is wooded or grass areas which other than the addition of a fence will have no physical changes.

The minor additional area access road will naturally drain to soft ground or watercourses as per the existing arrangement. The installation of a French drain along this section of road will aid the drainage and reduce the risk of surface flooding in flash downpour situations.

Appendix A

Flood Zone Map

Flood map for planning

Your reference
E05535

Location (easting/northing)
447004/107951

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Your selected location is in flood zone 1, an area with a low probability of flooding.

You will need to do a flood risk assessment if your site is **any of the following:**

- bigger than 1 hectare (ha)
- In an area with critical drainage problems as notified by the Environment Agency
- identified as being at increased flood risk in future by the local authority's strategic flood risk assessment
- at risk from other sources of flooding (such as surface water or reservoirs) and its development would increase the vulnerability of its use (such as constructing an office on an undeveloped site or converting a shop to a dwelling)

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

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Flood map for planning

Your reference
E05535

Location (easting/northing)
447004/107951

Scale
1:10000

Created
14 Nov 2024 13:34

-  Selected area
-  Flood zone 3
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area

0 100 200 300m