

Drainage assessment report

5-7 Station Road, Hayling Island

Introduction

The above site is proposed for re-development. At present almost the entire site is hard paved. Drainage investigations on site have shown that both the existing storm and foul water from the site discharges into the existing sewer in Station Road, see attached drawings.

Proposals storm water:

The new development consists of new commercial and residential units. There will also be associated car parking and soft landscaped areas as shown on the attached drawings. The new development also incorporates permeable paving for the area of the new car parking.

Calculations have been carried out to determine the existing and proposed storm water runoff for the design 1in100 year + 40% climate change storm.

The calculations are attached to this letter. They show the following:

Existing storm water site run off during 1in100 year + 40% climate change allowance 6 hour storm:
209.5m³, this equates to a flow of 9.70L/s

Proposed storm water site run off during 1in100 year + 40% climate change allowance 6 hour storm:
194.1m³, this equates to a flow of 8.99L/s

Therefore the proposed development of the site will reduce the storm water discharge from the site by 15.4m³ during the 1in100 year + 40% climate change 6 hour design storm.

A new storm water connection into the local storm sewer will be constructed on site. It is believed that the existing site discharges its storm water either into the foul system or perhaps into the highway drainage on site, both of which are not acceptable to current regulations.

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We have proposed a sealed permeable paving system that will attenuate the storm water within the car park road construction and then discharge at a rate to be agreed with Southern Water during the storm water sewer connection application. This sealed permeable surface will also protect any ground water beneath the site from possible contamination pathways.

Yours Sincerely

Elvin Gomery

For and on behalf of Cowan Consultancy

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