

Our Ref: WDS/05/7967/LETT001



5th January 2023

Stoney Croft
Seamill Lane
St Bees
Cumbria

For The Attention of Mr Grundy

**WHINBARROW DESIGN
SERVICES LIMITED**
CIVIL & STRUCTURAL
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RE: New Dwelling, Stoney Croft, Seamill Lane, St Bees, Drainage Strategy

Dear Sir

As requested we have reviewed the site and provided a preliminary drainage layout for the proposed new build, see attached our A3 sketch ref 05-7967-D Mod A. I have outlined the drainage strategy below:-

1. The foul water arising from the new build will drain into the adjacent existing system
2. The surface water will drain into the existing system via an attenuation tank with hydro brake to ensure surface water flow arising from the new build will not exceed 5l/s. We carried out a percolation test on the site in accordance with BRE365 which confirmed the local ground was not suitable for a soakaway.
3. I have outlined the percolation test method and findings below:-
 - A 1.0x0.4x1.3m deep hole was excavated at the location noted on our sketch 05-7967-D. The ground comprised a very stiff clay with some cobbles, see attached photograph 01. The percolation test was carried out on the 14th December 2022.
 - The hole was filled with water to 800mm deep which was achieved at 10.45am (see photograph 02 attached). The water depth was checked regularly and no drop in water level was recorded over a 6 hours period. It was decided to terminate the test at this stage.
 - As noted above the percolation test confirmed that a soakaway will not be practical in this instance.

I hope you find the above acceptable however should you have any queries please do not hesitate to contact me.

Yours Faithfully

Mr Tom Short B. Eng. (Hons), C. Eng., MICE
For WDS Limited
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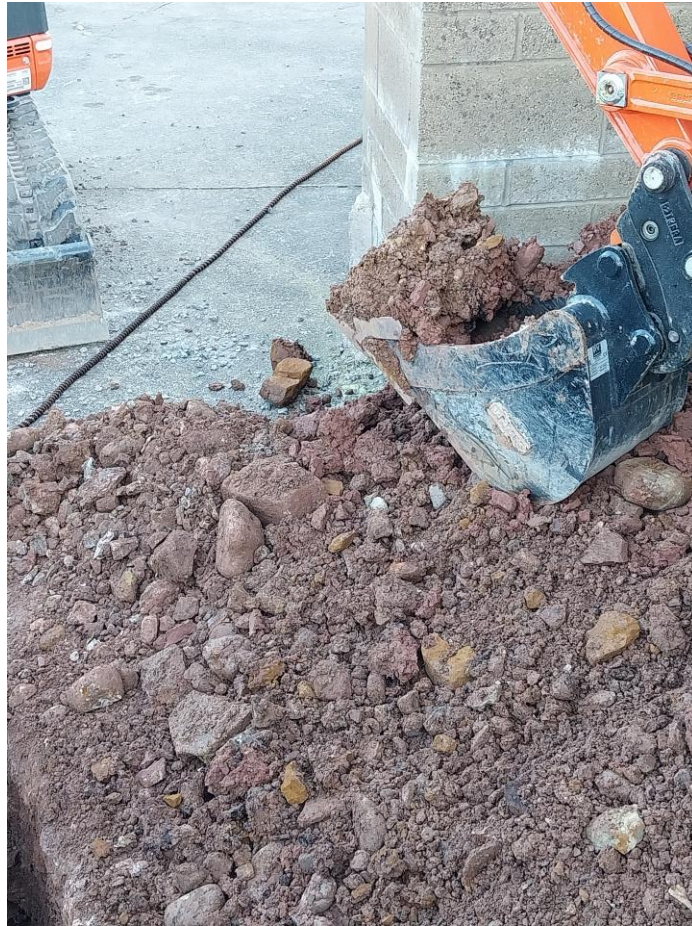


PHOTO 01 VIEW ON ARISINGS FROM TEST PIT



PHOTO 02 PIT WITH 0.8M DEPTH OF WATER