

Our Ref: LC/1315/SRB

Date: 16 January 2025

Ms Anne McDonald
North Herts Council
PO Box 10613
Borehamwood
Hertfordshire
WD6 1WA

Dear Ms McDonald,

**Re: Newsells Park Winery, Whiteley Hill, Barkway, Royston, Hertfordshire SG8 8DY
Planning Application: 23/01420/FP**

I am writing to you in connection with Planning condition No. 7 below;

7. Development shall not commence until details and a method statement for interim and temporary drainage measures during the construction phase has been submitted to and approved in writing by the Local Planning Authority. This information shall provide full details of who will be responsible for maintaining such temporary systems and demonstrate how the site will be drained to ensure there is no increase in the off-site flows, nor any pollution, debris and sediment to any receiving watercourse or the proposed drainage system. The site works and construction phase shall thereafter be carried out in accordance with approved method statement, unless alternative measures have been subsequently approved by the Planning Authority.

Reason: To prevent flooding and pollution offsite in accordance with the NPPF

Further to the letter from the HCC Lead Local Flood Authority on the 15th November 2024 please find attached our revised drawing 1315-103A which shows the temporary surface water drainage system that is to be installed prior to the commencement of the main construction works to prevent inadvertent run-off from the site. Given that the site subsoil is chalk we do not expect significant overland surface water flows but an interception ditch has been employed to catch any such flows.

Part of the ditch will form a wet conveyance swale in the final surface water drainage scheme thereby improving the environmental impact of the temporary scheme.

The ditch is to be lined using FlocMat by Frog Environmental Ltd; a product sheet attached. The FlocMat captures any silt in the run off from the construction site and will be removed at the end of the works so that the swale can be planted appropriately.

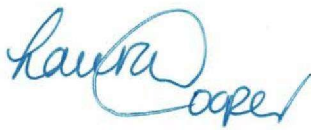
This ditch will flow into a temporary pond that is sized to deal with a storm event of 1in100 year return period without climate change enhancement. Such enhancement will not apply in the period in which the construction drainage system will be operating.

The temporary pond will be inspected monthly or after a significant rainfall events during the construction phase to check for siltation. If silt is found, that will be removed by a mechanical excavator.

The installation and maintenance of the temporary ditch will be the responsibility of the main contractor for the project with the above drawing forming part of the contract documents. The strategy will also be included in the construction management plan. At this stage the contractor has not been appointed, and we currently have no firm start date for the works.

I trust this is sufficient information for HCC LLFA to recommend a discharge of planning condition No. 7. Please do not hesitate to contact me if you require any further clarification.

Yours sincerely,



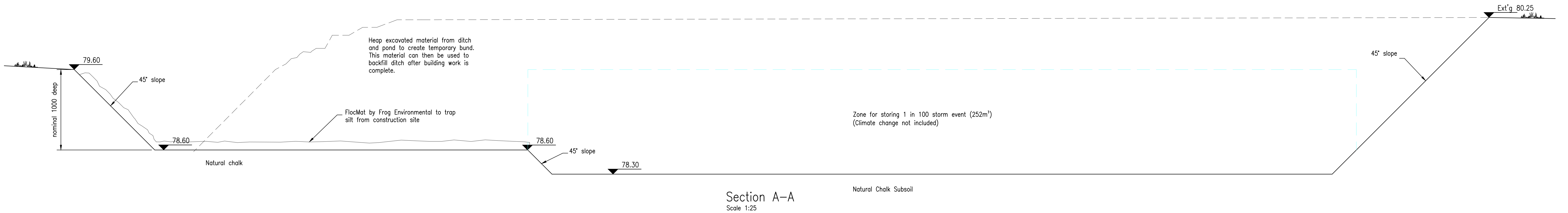
Laura Cooper
Engineering Technician

Encl.

Drawing No. 1315-103A
FlocMat product information Sheet from Frog Environmental Ltd

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- KEY**
- | | |
|---|-------------------|
|  | Permeable Surface |
|  | Bound Gravel |
|  | Rock Setts |
|  | Concrete |
|  | Wetlands |
|  | Landscaping |
|  | Permeable Paving |
|  | Porcelain Paving |
|  | Asphalt Bellmouth |



Natural Chalk Subsoil



- | | | | | |
|--|-----------------------------------|------|---|------------|
| A | Updated following L11FA comments. | LC | 16.01.25 | SRB |
| REV. | AMENDMENTS | BY | DATE | CHECKED |
| STATUS | | | | |
| PLANNING | | | | |
| PROJECT | | | | |
| Whiteley Hill Winery | | | | |
| CLIENT | | | | |
| Newsells Park Estate | | | | |
| ARCHITECT | | | | |
| Designed/built | | | | |
| TITLE | | | | |
| Temporary Construction Drainage | | | | |
| Job No. | | 1315 | DATE | 02.05.2024 |
| DRAWING No. | | 103A | SCALE | 1:2000MM |
| | | | DRAWN BY | LC |
| | | | CHECKED | SRB |
| SOLUTION | | | CONSULTING CIVIL & STRUCTURAL ENGINEERS | |
| HANTHORPE HOUSE, COWARDS LANE, CODDICE
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TELEPHONE: 01438 820110, MOB: 07903 162414
E-mail: enquiries@solution.co.uk | | | | |



frog
environmental
silt control, water quality &
bubble curtain specialists

product information sheet

FlocMat™

water treatment mat



Floc Mat™ is a versatile silt control device

A mat created to treat and capture fine silts and suspended particles in construction site run off.

The main function of the mat is to flocculate very fine particles, making them easier to separate from water.

Floc Mats can be laid flat out in dispersion fields, used with Silt Wattles or silt fence and deployed in the frog environmental Silt Capture Channel as part of a versatile water treatment process to remove silt from construction site run off.

Applications

- In a Silt Capture Channel
- With Silt Wattles and SiltMats™
- In site ditches and low flow channels
- In combination with silt fence
- On natural dispersion fields
- In combination with dewatering bags and silt socks

- **Floc Mat™ is a fully biodegradable water treatment and silt capture mat that treats muddy water and helps prevent silt pollution**
- **They are a cost effective way of treating water in ditches and channels, without the need for pumps – saving energy and CO₂**

Dimensions: 2x 1 x 0.10m

Variants: FM1 (30g/m²), FM2 (100g/m²) FMO (untreated)

Active ingredient: Gel Flocculant

Dry Weight: 14 kg per mat

Material used: Coir fibres, Coir netting, Coir rope, Anionic flocculant, water

Function: Water treatment – aids solid water separation.

Performance: Single mat captures up to 50kg of silt, confirmed in live tests.

Disposal: Fully biodegradable, suitable for re-use on site (with correct permit).

Waste classification and disposal legislation must be followed at all times. Always liaise with the regulator before deploying a product containing flocculant. If in doubt contact us for further information and advice.



Close up Floc Mat showing accretion of silt

100% sustainably sourced natural fibres are used to create Floc Mat. This ensures the mats are biodegradable and suitable for use as backfill material once used, reducing waste disposal costs. FlocMat is available in treated and untreated forms.

The fibres of the treated version of Floc Mat are coated with Gel Flocculant, a non-hazardous, non-toxic, synthetic anionic polymer which contains no coagulants, cations or metals such as Al and Fe that are ecotoxic.

When deployed in a Silt Capture Channel the Floc Mat provides a safe, low carbon and easy solution to support the removal of suspended solids and associated pollutants from construction site run off.



Deployed in Silt Capture Channels with Silt Wattles



Deployed to treat muddy excavation water

**for technical support and sales of
Floc Mat contact frog environmental**

0345 057 4040

info@frogenvironmental.co.uk

www.frogenvironmental.co.uk