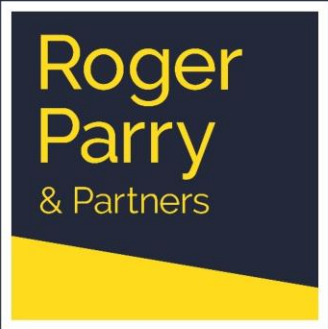

Manure Management System

Erection of a free-range
egg production unit and
associated works at Forest
View, near Llanbister,
Llandrindod Wells, Powys.
LD1 6UL

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August 2026

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The logo for Roger Parry & Partners is located in the bottom left corner. It consists of a dark blue square with a white border. Inside the square, the text "Roger Parry" is written in a large, bold, yellow sans-serif font, and "& Partners" is written in a smaller, yellow sans-serif font below it. A yellow diagonal shape is visible in the bottom right corner of the square.

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1. Introduction to Manure Management Plans

Based on information provided by the farmer, the manure management plan fulfils the following objectives:

- From farm size, cropping and livestock numbers, it calculates if the farmer is NVZ compliant – with an average maximum load of 170kg N/ha
- The manure management plan also provides a template for the farmer to record the actual type, quantity and date of organic manure applications.
- The plan does not calculate storage requirements.
- The plan does not constitute a recommendation for the application of organic manures.

Spreading of organic manures can pose a risk of nitrogen getting into surface water via run-off. This report provides mitigation measures to limit this risk in line with The Water Resources (Control of Agricultural Pollution) (Wales) 2021.

2. Description

Forest View currently operates a poultry unit housing 16,000 birds. The proposal is for an additional poultry unit extension to the existing building to house an additional 16,000 birds, giving a total of 32,000 birds. The proposed new poultry unit has a ranging area of 9.17 hectares, with its boundary approximately 120m from the watercourse to the south.

Total Nitrogen produced by livestock on the holding					
Type of Livestock		Number of stock	Days on farm	Total Nitrogen produced by each unit of stock (kg/annum)	Total Nitrogen produced
Poultry					
Chickens used for production of eggs for human consumption	Less than 17 weeks			0.23	0.00
	From 17 weeks (caged)			0.41	0.00
	From 17 weeks (not caged)	32000	365	0.55	17600.00
Chicken raised for meat				0.39	0.00
Chickens raised for breeding	Less than 25 weeks			0.31	0.00
	From 25 weeks			0.74	0.00
Turkey	Male			1.37	0.00
	Female			1.03	0.00
Ducks				0.91	0.00
Ostriches				1.4	0.00
Total Poultry Nitrogen				kg/annum	17600
[2F] Total Nitrogen produced from livestock on the holding				kg/annum	17600

Figure 1: Livestock nitrogen output for proposed building

The Manure Management Plan includes the total of 32,000 free range birds, both existing and proposed at Forest View.

[2A] Total Area of holding (ha)	129.99	ha							
[2B] Total Nitrogen capacity of holding from livestock manure (kg)*	22098.3	kg	* This figure is calculated by multiplying						
[2I] Total Nitrogen produced (including import/export)	17600	kg							
Difference between N capacity and N produced	4498	kg							
Compliance with the 170kg/ha Nitrogen Limit	N Loading Limit 135	kg/ha	Within the 170kg/ha limit						

Figure 3: Total value of Nitrogen for land and the N Loading Limit

The Farm Workbook has been completed to include all livestock on the holding and proposed poultry. This has resulted in a N Loading limit at 135kgN/ha. Therefore the farm complies with regulations and is considerably under the 170kgN/ha limit.

All of the poultry manure produced will be used on land owned by the applicant.

3. Phosphate (P) Produced

The “dirty” yard areas on the farm will be kept to a minimum. This is due to the manure being contained in the poultry unit and removed every four days together with the hardcore area to the front of the poultry unit. The farm business will require all areas to be clean outside the building as they will be producing food products within the unit.

The proposal will incorporate the installation of a dirty water tank adjacent to the poultry unit. The wastewater tank will be built in compliance with The Water Resources (Control of Agricultural Pollution) (Wales) Regulations 2021. The tank to be installed will be 1,000 gallons.

This dirty water will be spread on the applications land in accordance with CoAPR.

4. Storage of Manure

All solid manure produced within the poultry unit will be removed every three to four days and spread directly onto land in ownership of the applicant or stored in a covered manure store if conditions are unfavourable. We confirm that

during the Closed Period there is sufficient storage on site for the manure produced during that period

5. “Dirty” Yard Areas

Any “dirty” yard areas will be kept to a minimum. Manure from the poultry unit will be removed every three to four days and stored in a dedicated, covered manure store. The farm business will require all areas to be clean outside the building owing to the unit being a food production site.

The proposal will incorporate the installation of a 2,500-litre dirty water tank adjacent to the poultry unit. The wastewater tank will be built in compliance with The Water Resources (Control of Agricultural Pollution) (Wales) Regulations 2021.

6. Contingency Plan

A covered manure store to allow for storing manure produced at times when spreading may not be possible e.g. due to wet, waterlogged or frozen conditions. This is to ensure manure is spread at the appropriate time to prevent pollution and maximise uptake of nutrients for crop growth.

7. Spreading of Manures

Areas on which solid manures and slurry should never be spread are:

Ditches and watercourses:

- Within at least 10 metres (11 yards) of either side of any watercourse including ditches and piped ditches. This will avoid direct spreading into the watercourse and also reduce the risk of run-off reaching the watercourse.

Other non-spreading areas:

- Within at least 50 metres of any spring, well, borehole or reservoir that supplies water for human consumption or farm dairies.
- Very steep slopes where run-off is a high risk throughout the year.
- Any areas where you may not be allowed to spread for reasons such as a tenancy agreement, an abatement notice due to smell, set-aside land, Sites of Special Scientific Interest (SSSIs) or Environmentally Sensitive Areas (ESAs).
- The surface is rocky or uneven so that your equipment cannot be used effectively or safely.

The manure will not be spread on or near the ranging areas.

8. Application Methods

Manures will be stored and spread in accordance with The Water Resources (Control of Agricultural Pollution) (Wales) Regulations 2021.

Manure will be stored in a covered manure store and will be densely packed with an ‘A’ shaped profile.

Manure will be spread under suitable conditions

- Wind direction will be chosen to be blowing with prevailing direction from the west which will blow any odours away from the closest dwellings.
- The ground to receive the manure will not be waterlogged or frozen.
- Spreading will be carried out at least 10 metres away from any water courses or ditches
- Manure will be incorporated in the soil within 24 hours of application, where this is possible due to conditions.

9. Manure Spreading Plan

Manure will be spread according to the annual plan.

Manure will be tested and analysed on a regular basis so that quantities applied will mean that applications will concur with crop requirements as laid out in DEFRA document RB209.

The birds within the free-range unit will graze the designated land in a rotational field system. The birds will step out of the building through the pop holes provided and onto a veranda, which shall ensure that the ground is not poached and compacted by the birds.

The veranda shall also ensure that the feet of the birds are cleaned prior to entering the building. The birds will be then directed to those fields available for grazing in rotation to prevent over stocking of the ground and ensure the fertility of soil. Good pasture management is essential, and it is paramount the problems of parasitic intestinal worms and coccidian oocysts are avoided.

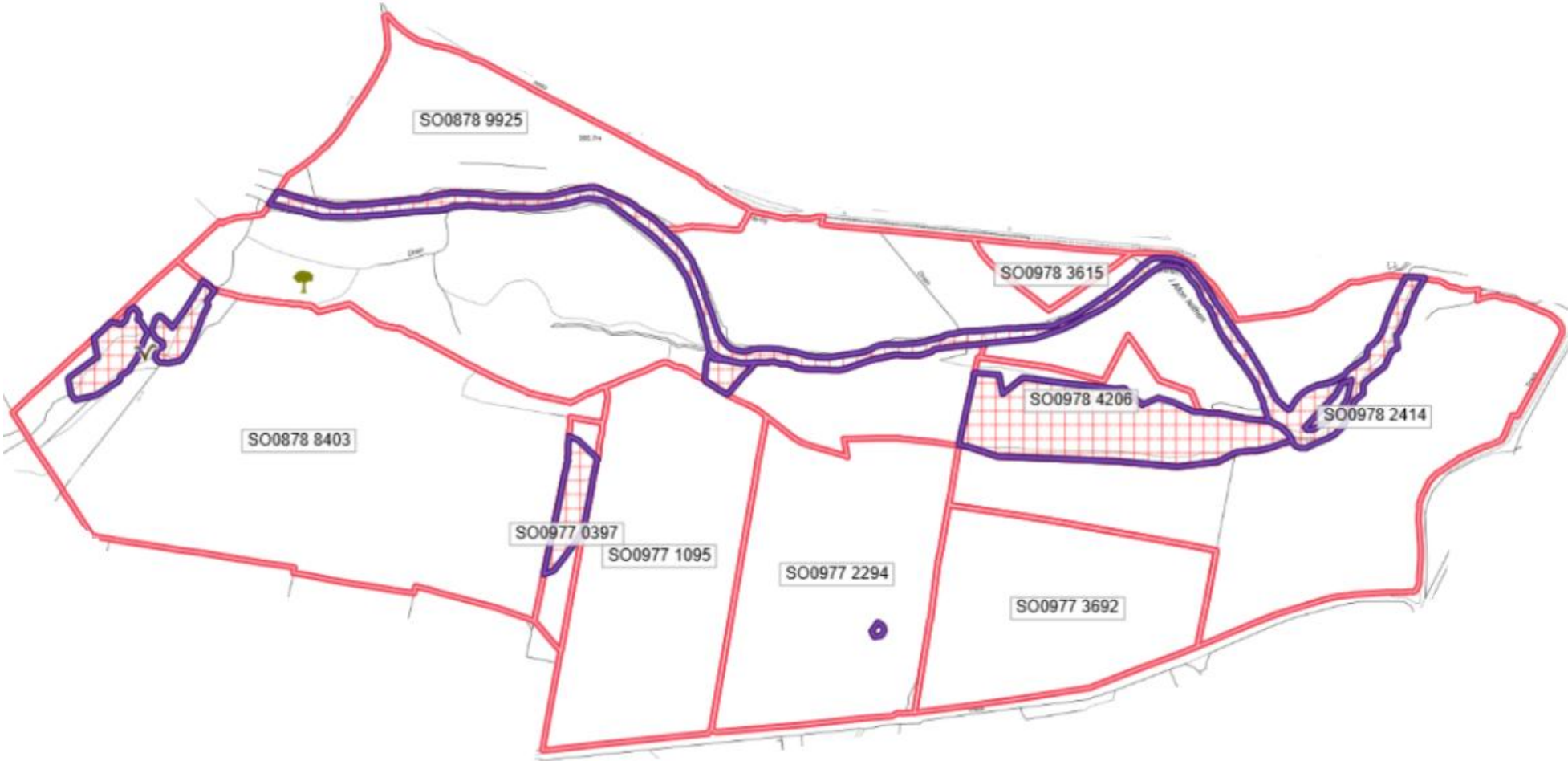
10. Farm spreading maps

Below are the Manure Spreading plans.

There are a number of watercourses, ponds and ditches through the farmland.

The maps show areas suitable for spreading. There is a no spread zone of 10 metres around all watercourses, ponds and ditches.

BLOCK A



BLOCK B



BLOCK C

