
Manure Management Plan

Erection of a free-range egg
production unit including silos
and associated works at Land
South West of Brithdir Farm,
Llanrhaeadr Ym Mochnant

Prepared for Mr Ellis



land & property
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Manure Management Plan for Land South West of Brithdir Farm, Llanrhaeadr Ym Mochnant

This manure management plan has been prepared for Mr Ellis of Brithdir Farm, Llanrhaeadr Ym Mochnant.

The holding extends to approximately 119.07 Acres (48.2 Hectares) which is owner occupied.

The assessment below shows the land required for the manure produced would be 103ha to comply with the 170Kg of nitrogen restriction. A buffer of 10m has been provided to all watercourses and sensitive receptors, and 50m from wells and boreholes, and no spreading will be done in these buffer zones.

Having calculated these areas the spreadable land available for the client is only 26.16ha. This in turn means the applicant will need to export 13,153Kg N by spreading 4447Kg N on his own land.

The manure storage and disposal will also need to accord with DEFRA's Code of Good Agricultural Practice for the Protection of Air, Water and Soil.

Table 1

Total Manure Production			
Group	Kg N produced	No of animals	Total Kg N (Year)
Laying hens	0.55	32,000	17,600
Total N Produced			17,600
Spreadable Area			26.16 ha
Total N/Ha			672
Total Spread On Land (170Kg N)			4447
Total Exported			13153

Phosphate Production

Total Phosphate Production			
Group	Kg P produced	No of animals	Total Kg P (Year)
Laying hens	390 per thousand laying hens	32,000	12,480
Total P Produced			12,480
Total Spread On Land			3120
Total Exported			9360

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

Ditches and watercourses

Within at least 10 metres 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. This includes watercourses that form part of the boundary of the holding.

Other non-spreading (red) 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.

Application Methods

Manure will be stored and spread in accordance with the water, soil and air Codes of Good Agricultural Practice.

Manure will be stored in manure heaps at the holding and will be densely packed with an 'A' shaped profile.

- Manure heaps will be located at least 10m away from watercourses, drainage schemes and ditches
- Manure will be spread under suitable conditions
 - Wind direction will be chosen to be blowing with prevailing direction from east which will blow any odours away from closest dwellings
 - The ground to receive the manure will not be waterlogged or frozen
 - Spreading will be done at least 10 metres away from any water courses or ditches
- Manure will be incorporated in the soil within 24 hours of application, which this is possible.

Contingency plan

There are a number of covered areas on the farm to allow for storing any manure, slurry and dirty water produced at times when spreading may not be possible e.g. due to wet, waterlogged or frozen conditions in accordance with the Code of Good Agricultural Practice. This is to ensure manures and slurry are spread at appropriate times to prevent pollution and maximise uptake of nutrients for crop growth.

Covered area is at the applicant's home address of Brithdir, which has a concrete floor and concrete walls to allow for storage.

Wash water will be stored in a dirty water tank below ground which will be compliant with SSAFO Regulations (Wales) 2010 standards and be of sufficient capacity to cope with the build-up of wash water. Once this reaches capacity, it will with be spread on the land directly from the slurry tanker, or taken off the holding.

During and after a potential disease outbreak, the wash water from the unit will be collected by a specified waste services company or a permitted anaerobic digester, which would take the 'hazardous waste' off the farm and dispose of it correctly. This will ensure any contaminated wash water/slurry from the outbreak will be kept separate from other manures/slurry on the farm

Manure Spreading Plan

Manure will be spread according to the manure management plans submitted with this application.