



MANURE MANAGEMANT PLAN



DEVELOPMENT: Erection of an intensive poultry installation and associated works

LOCATION: Mulsford Farm
Mulsford
Sarn
Malpas
SY14 7LP

CLIENT: D J Huxley Farms

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MANURE MANAGEMENT PLAN

This manure management plan has been prepared for D J Huxley Farms of Bank Farm, Bronington, Whitchurch.

The farmland at Mulsford extends to approximately 192.65 acres (78.04 hectares) of owner occupied land. The farm currently runs an arable enterprise on the 139 acres with 100,000 broilers proposed. The applicants currently buy in fertiliser to spread on the land together with some poultry manure.

The manure management plan has been prepared for the total stock of 100,000 broilers.

A buffer of 10m has been provided to all watercourses, and no spreading will be done on this buffer zone. The farm has therefore sufficient capacity to dispose of all manure produced by all enterprises in accordance with all the relevant regulations and legislation.

The total amount of manure (N) that can be applied over the spreadable land on the farm would be 78.04 hectares x 170kg = 13,266.80kg N.

The total produced on the farm is 33,000kg N, and therefore manure will have to be exported (Table 1).

Table 1:

Stock Unit	Stock Numbers	Kg N per Stock Unit	Total Kg N Produced
1000 broiler places	100	330	33,000
Total Kg N produced			33,000
Total Kg N to be applied			13,266.80
Total Kg N to be exported			19,733.2

The applicants also own land at Bank Farm (39.14ha) and Horse Mans Green Farm (52.36ha), which totals an extra 91.5ha. The land is currently combinable arable crops. Therefore any additional manure will be exported to the land at Bank Farm and Horse Mans Green Farm.

The total amount of manure (N) that can be applied over the spreadable land on Bank Farm would be 39.14 hectares x 170kg = 6,653.80kg N.

The total amount of manure (N) that can be applied over the spreadable land at Horse Mans Green Farm would be 52.36 hectares x 250kg = 13,090kg N.

The total amount of manure (N) that can be applied on land at Mulsford, Bank Farm and Horse Mans Green Farm is:

$$13,266.80 + 6,653.80 + 13,090 = 33,010.60\text{kg N.}$$

We can confirm that 1,000 tonnes of manure will be exported to the Anaerobic Digester at Lower Park Farm, Parkside, Rossett, and therefore no manure will be applied to the land at Mulsford, Bank Farm or Horse Mans Green Farm, all manure will be exported.

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.



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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. Manure will also be exported off site to local AD plants.

Table 2

Total Manure Production			
Group	Kg N Produced	No of Animals	Total Kg N
1000 Broilers	330	100,000	33,000
Total N Produced			33,000 Kg N
Total N Exported			1000 tonnes

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. Do not forget to include watercourses that form the boundary of your farm.

Other non-spreading (red) areas:

- Within at least 50 metres (55 yards) 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

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

- 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 water logged 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, where this is possible due to conditions.



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MANURE SPREADING PLAN

Manure will be spread according to the annual cropping 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.

All manure will be exported to the local AD plant and therefore no manure spreading plans have been included within this document.



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