



Parkhouse Farm, Harbottle, Morpeth, Northumberland, NE65 7BD
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BACKGROUND STATEMENT

**Land South West of Cardwell House
Dawsmere Road, Gedney Marsh
Spalding, Lincolnshire**

Proposed Reservoir

Ref No. FP/020/BS August 2020

**Emmett UK Organics Ltd
Washway Road
Fosdyke
Spalding
Lincolnshire
PE12 6LQ**

1. BACKGROUND

Brothers John and William Emmett started farming together in the 1970's, expanding to grow vegetables and salads for the wholesale markets that supplied London. In the 1980's they started direct supply to Waitrose, Tesco, Sainsbury and Safeway.

The product range in those early years was broad and diverse with well over twenty different products being grown; leeks and brassicas dominated their winter supply with lettuce and spinach the mainstays of the summer. Both consumers and retailers wanted more convenient and added-value products, whereas most fresh produce was marketed loose. John and William mechanised their farms and automated their pack house; leek rigs, lettuce rigs, vacuum cooling, vertical fill packing of spinach and farming in Spain all appeared in the 1990's.

By the millennium the Emmett range had consolidated slightly with leeks and spinach being their products of repute. Although still growing a full suite of salads, this side of the business was being undermined on price and scale by bigger producers.

In 2002 the vegetable business became Emmett UK Ltd making clear its intention to be a national business supplying the whole of the UK from there bespoke Packing and Distribution Centre at Fosdyke.

Today Emmett is a fully integrated farming, packaging and marketing business specialising in four core products: spinach, leeks, kale and cavolo nero. Since the turn of the century the business has more than doubled in size and now grows everything it sells. In the UK, Emmett farms across South Lincolnshire and into North Cambridgeshire. The Spanish business farms organic and conventional products too. In 2016 the Italian growing business was established to grow conventional spinach. The Fosdyke factory operates seven days a week, twenty-four hours a day - a rolling system of production, cleaning and maintenance all with directly employed staff.

2. RESERVOIR DESIGN CRITERIA

The reservoir has been designed with reference to the following:-

Small Embankment Reservoirs; Report 161; CIRIA (Construction Industry Research and Information Association)
Floods and Reservoir Safety: an Engineering Guide; The Institution of Civil Engineers. (*F&RS*)

Freeboard Height

Design Freeboard when full is 0.75m

Fetch	0.2 km	
Average Hourly annual max wind speed	18 - 20 m/s	<i>Fig 3 F&RS</i>
Once in Ten Yearly maximum wind speed	24 - 26 m/s	<i>Fig 4 F&RS</i>
Design Wind Speed assumed	25 m/s	

Using *Fig 9. F&FS* Relationship between effective fetch, wind speed and significant wave height by interpolation

Significant Wave Height 0.3 m

Design Wave Height

Using *Table 2 F & FS* Design Wave Heights

Dam Type	Earth Fill
Crest	Road
Downstream slope	Random grass
Design wave height factor	1.2
Design wave height	= 0.3 m x 1.2
	= 0.36 m
	= 0.4 m

Wave Run Up

Using *Fig 10 F&FS* Ratio of run-up height to design wave height

Dam Slope	1 : 4
Slope characteristic	Smooth
By interpolation Run-up Ratio	1.7
Minimum Freeboard Allowance	= 0.4 m x 1.7
	= 0.68 m
	= 0.7 m

3. ARCHAEOLOGY

The proposed site has been site of a reservoir in the past and there is no known evidence of archaeology on the site.

Should on stripping the site any evidence be found then Lincolnshire County Councils Historic Environment Team will be advised.

4. PLANNING LEGALISATION

The proposed development can be dealt with under the Prior Notification Procedure for the following reasons:-

The reservoir is reasonable necessary for the purposes of agriculture

The development is being carried out on an area of land of greater than 5 ha

The area of the proposed operations exceeds 0.5 ha

No part of the development is within 25 metres of a metalled part of a trunk or classified road

No excavated material will be removed from the unit. (The spoil from the excavation will be used to construct the walls of the reservoir with any surplus top soil spread adjacent to the reservoir)

5. CONCLUSION

Prior Approval should be granted for the proposed reservoir which is reasonably necessary for agriculture and will enable Emmett UK Organics Ltd to store excess winter rainfall for irrigation during the summer months thereby helping to future proofing the business from the affects of climate change.

Simon Kenny B.Sc., I.Eng., M.I.Agr.E.
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PLANS

FP/020/25	Site Plan
FP/020/01	Plan

