

Ms. Dorothea Richards  
Office of Climate, Licensing and Resource Use  
Environmental Protection Agency,  
P.O. Box 3000,  
Johnstown Castle Estate,  
Co. Wexford

19<sup>th</sup> April 2010

**Re: I.P.P.C. Licence Application Reg. No. P0913-01  
Greenfield Foods Ltd., Mullandavagh, Smithboro, Co. Monaghan**

Dear Ms. Richards,

I refer to previous Agency correspondence of 15<sup>th</sup> April last, with regard to the I.P.P.C. Licence Application made on behalf of Greenfield Foods Ltd. for their proposed poultry farm at Mullandavagh, Smithboro, Co. Monaghan. Please find detailed below the additional information requested by the Agency in accordance with Article 11(2)(b)(ii) of the EPA (Licensing) Regulations 1994 to 2008.

1. The cleaning process within the proposed development will be a dry cleaning operation. As there is a significant amount of equipment within the houses routine washing is not practicable. All houses will be swept and blown down to remove any organic matter. This will be swept onto the conveyor that removes the manure to the manure store and stored with the manure.
2. At the end of the laying cycle the cull birds will be moved off site to an approved slaughtering facility. Please see attached information.
3. No bedding will be used in the poultry houses, as it is not required.
4. As a high pressure power washer will be used it is anticipated that it will only take c. 13.63 m<sup>3</sup> to wash out the manure store. As the manure from the houses will be transferred to the manure store on a regular/daily basis, there will be limited opportunities to wash out this store. It is anticipated that this will only be washed out outside of the closed period after manure is removed from the shed. The soiled water tank of 22.72 m<sup>3</sup> is more than adequate, for this purpose. This tank will also provide sufficient capacity for washing down the concrete apron at the front of the manure store.
5. There is c. 14.34 ha (total Area 21.36 Ha minus site area 7.02 Ha) available adjacent to the site for the receipt of this soiled water. Please find attached a map of the lands. The table below indicates the land area owner by Mr. John Mohan, a director of Greenfield Foods Ltd. Mr. Mohan does not have any livestock, and currently rents this land on an annual basis. At present it is not possible to sample and analyse the soiled water for nutrient content, however in line with other poultry farms this nutrient is expected to be minimal. The 13.63 m<sup>3</sup> gallons/annum estimated would result in an application rate of less than 1m<sup>3</sup>/ha.

Plot Number	Gross Area	
R16439013	4.98 Ha	Land to the rear of proposed site
R16439019	7.11 Ha	Area where new development is to be located
R16439022	2.98 Ha	Area across the road from the existing facilities.
R16438011	6.29 Ha	Area across the road from the existing facilities.

6. The manure production per annum has been indicated in the E.I.S. to be c. 6,915 tonnes or c. 9,220 m<sup>3</sup>. As per page 35 of the E.I.S. it has been estimated that there is c. 0.75 tonnes manure/m<sup>3</sup>. The applicant appreciates that it would be clearer to understand if only one measure was used for the annual manure production, i.e. either tonnes or m<sup>3</sup>. Unfortunately this was not possible as the volume of manure in m<sup>3</sup> was required to calculate the size of the manure storage facilities required, and the tonnes of manure was required so as to tie in with table 8 of the nitrates directive. Table 8 of the nitrates directive (S.I. 101 of 2009) details the nutrient content of layers manure, in Kg of N and P per tonne. Please find attached a revised customer list confirming that the units used are metric tonnes.
7. Please find attached a copy of the site plan submitted with the I.P.P.C. Licence application. The area designated for the percolation area is already included within the proposed boundary. This has been highlighted on the accompanying plan to improve clarity.
8. Please refer to attached map for location of the closest receptors and other poultry farms in the area.
9. The proposed surface water drainage plan is included on the map referred to in point No. 8 above. As this is a proposed development this plan may be subject to changes during construction, however these will be notified to the Agency. The proposed location of the water supply tank has not yet been confirmed, however this can be notified to the Agency as soon as this has been completed.



10. The only area where soiled water can occur is at the entrance to/exit from the manure store, and would be associated with the loading of poultry manure. In this area a concrete apron has been provided, and a soiled water tank to collect any soiled water. A two way sluice system will operate whereby, while manure is being loaded and until this area is washed down thereafter, the sluice will direct all water to the soiled water tank. Thereafter it will be diverted to the storm water drainage system. Uncontaminated yard water to the front of the site, which may become silted due to traffic etc. will be diverted through a silt trap and swale drainage system prior to discharging to the local watercourse. It is intended that roof water from the proposed poultry houses will discharge directly to the local watercourse. However at times where guttering may be cleaned out etc., this can be diverted to the swale drainage system as a matter of precaution, if required. Roof water from the manure store will discharge to the swale.
11. A proposed Management Structure Flow chart is attached. A farm manager will be appointed to manage and supervise the farm on a daily basis. This manager will be responsible for all activities on this site, including staff management and implementing and recording all of the requirements that may be detailed in the I.P.P.C. Licence and/or grant of planning permission issued to this farm. The farm manager will liaise with the manure contractor and C.L.W. Environmental Planners Ltd., where required, and will report back to the General Manager and directors of Greenfield Foods Ltd., as necessary.
12. The proposed development of 3 No. Poultry houses and associated works is being completed to comply with incoming animal welfare standards, and represents a substantial investment on behalf of the applicant. The design, layout and functioning of the houses will include;
- High insulation standards.
  - Fully automated and controlled ventilation, feeding, egg collection and manure removal systems.
  - Substantial manure storage facilities.
  - Comprehensive waste segregation, management, storage and disposal practices.
  - A daily management and cleaning routine so as to ensure that the houses and site are well managed and kept clean at all times, and that all wastes are removed from the houses, stored appropriately and moved off site as soon as practicable.

In order to ensure that emissions from the houses are minimized at all times the following abatement technologies/techniques will be implemented in the houses and on the site;

- Houses will be stocked at the appropriate stocking rates.
- Ventilation, feeding and other systems will be kept clean and well maintained at all times to maximise efficiency.
- Houses will be kept well cleaned with all wastes collected regularly, stored appropriately and moved off site as soon as practicable.
- A button nipple drinking system with cups underneath will be used to minimise water wastage, and to ensure that the manure is as dry as possible.

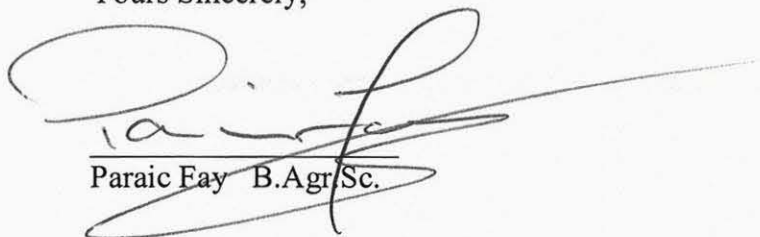
- Incorporated into the design and operation of the house is a manure drying system whereby air is blown over the manure while it is spread out on the belts within the house. This dries the manure to 55 – 60% D.M. These belts then transfer the manure to the conveyor at the end of the shed, and on to the manure store.
- The enriched cage housing system proposed by the applicant is deemed to be compliant with BAT requirements as detailed in the Integrated Pollution Prevention and Control reference Document on the Best Available Techniques for Intensive Rearing of Poultry and Pigs (2003). In this document it confirms that enriched cage houses, like the proposed development reduced emissions by more than 50%.

13. The housing system proposed by the applicant is deemed to be compliant with BAT requirements and the Integrated Pollution Prevention and Control reference Document on the Best Available Techniques for Intensive Rearing of Poultry and Pigs (2003), as referred to in Section 4.5.1.5.1 of this document. In this document it confirms that enriched cage houses, like the proposed development reduced emissions by more than 50%. The proposed development will also comply with incoming animal welfare regulations.

The poultry house design and ventilation systems are as outlined in this document, however the facilities within the house, such as cage sizes etc., may have been modified to comply with animal welfare requirements.

If you require any additional information please do not hesitate to contact me.

Yours Sincerely,



Paraic Fay B.Agr/Sc.





Drumgannis Lower  
Broomfield  
Castleblayney  
Co. Monaghan.  
T. +353 (0)42 9743902  
+353 (0)42 9743936  
+353 (0)42 9743604  
F. +353 (0)42 9743902

19<sup>th</sup> April 2010

To Whom It May Concern,

We wish to confirm that we take the old hens from Greenfield Foods Ltd for slaughtering. We are a registered poultry slaughtering plant 855 under the approval of the Department of Agriculture.

Yours sincerely

A handwritten signature in blue ink that reads 'Mary Mc Caghey' is written over a horizontal line.

Mary Mc Caghey  
Director  
IGWT Poultry Service Ltd

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GREENFIELD FOODS LTD.  
MULLANDAGAGH,  
SMITHBORO,  
CO. MONAGHAN.

PROPOSED MANAGEMENT STRUCTURE

MR. JOHN MOHAN & MR GERARD CAUFIELD  
DIRECTORS

MR. SEAMAS KELLY B.AG.SC.  
GENERAL MANAGER

(TO BE APPOINTED)  
FARM MANAGER



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<b>Legend for Attached Map</b>		
<b>Ref. No.</b>	<b>Description</b>	<b>Distance from proposed Development</b>
<b>1</b>	<b>Proposed Site</b>	<b>N/A</b>
<b>2</b>	<b>Applicants Existing Facilities</b>	<b>c. 250m</b>
<b>3</b>	<b>Dwelling</b>	<b>c. 265m</b>
	<b>(owned by a director of Greenfield Foods Ltd.</b>	
<b>4 &amp; 5</b>	<b>Closest Poultry Units.</b>	
<b>6</b>	<b>Dwellings</b>	<b>c. 245m</b>

\* It is not deemed appropriate for the applicant to provide information with regard to other holdings in this area, without the express permission of these owners. The location of the features has been detailed, based on the applicant's own information and no liability is accepted for errors and/or omissions from same.

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For Single Payment Scheme Purposes only



Scale: 1:5000

Name: [REDACTED]  
Address: [REDACTED]

Mullandavagh  
Smithboro  
Monaghan  
Co Monaghan

Townland Code: R16424  
Townland Name:  
DRUMMERY

ParcelNumber	Gross Area	Ref Area
[REDACTED]	[REDACTED] Ha	[REDACTED] Ha
[REDACTED]	4.99 Ha	4.97 Ha
[REDACTED]	0.78 Ha	0.61 Ha

Townland Code: R16439  
Townland Name:  
MULLANAVAGH

ParcelNumber	Gross Area	Ref Area
[REDACTED]	[REDACTED] Ha	[REDACTED] Ha
[REDACTED]	2.55 Ha	2.55 Ha
[REDACTED]	3.32 Ha	3.11 Ha
[REDACTED]	4.8 Ha	4.8 Ha
R16439013	4.89 Ha	4.8 Ha
R16439019	7.11 Ha	6.85 Ha
R16439022	2.98 Ha	2.97 Ha
[REDACTED]	0.13 Ha	0.6 Ha

Townland Code: R16438  
Townland Name:  
MULLAGLASSAN

ParcelNumber	Gross Area	Ref Area
[REDACTED]	[REDACTED] Ha	[REDACTED] Ha
R16438011	6.29 Ha	6.3 Ha

\* Areas shown above are gross areas in hectares. Deductions should be made for non-agricultural areas in Single Payment Scheme Applications

\*\* Validation checks may have altered the gross area of some parcels. You should therefore, examine the areas of individual parcels carefully.

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Sun Dec 14 23:03:48 GMT 2008  
R1640104 1 of 2





**JOB TITLE:**  
Erect poultry house and associated works at Mullandavagh Smithborough, Co. Monaghan

**DRAWING:**  
Site Plan & Location Map

**Drawing No. 5**

**O.S Digital No. 1093**

**SCALE: 1:500**

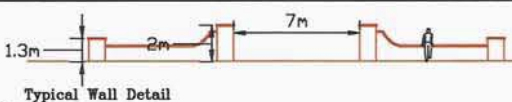
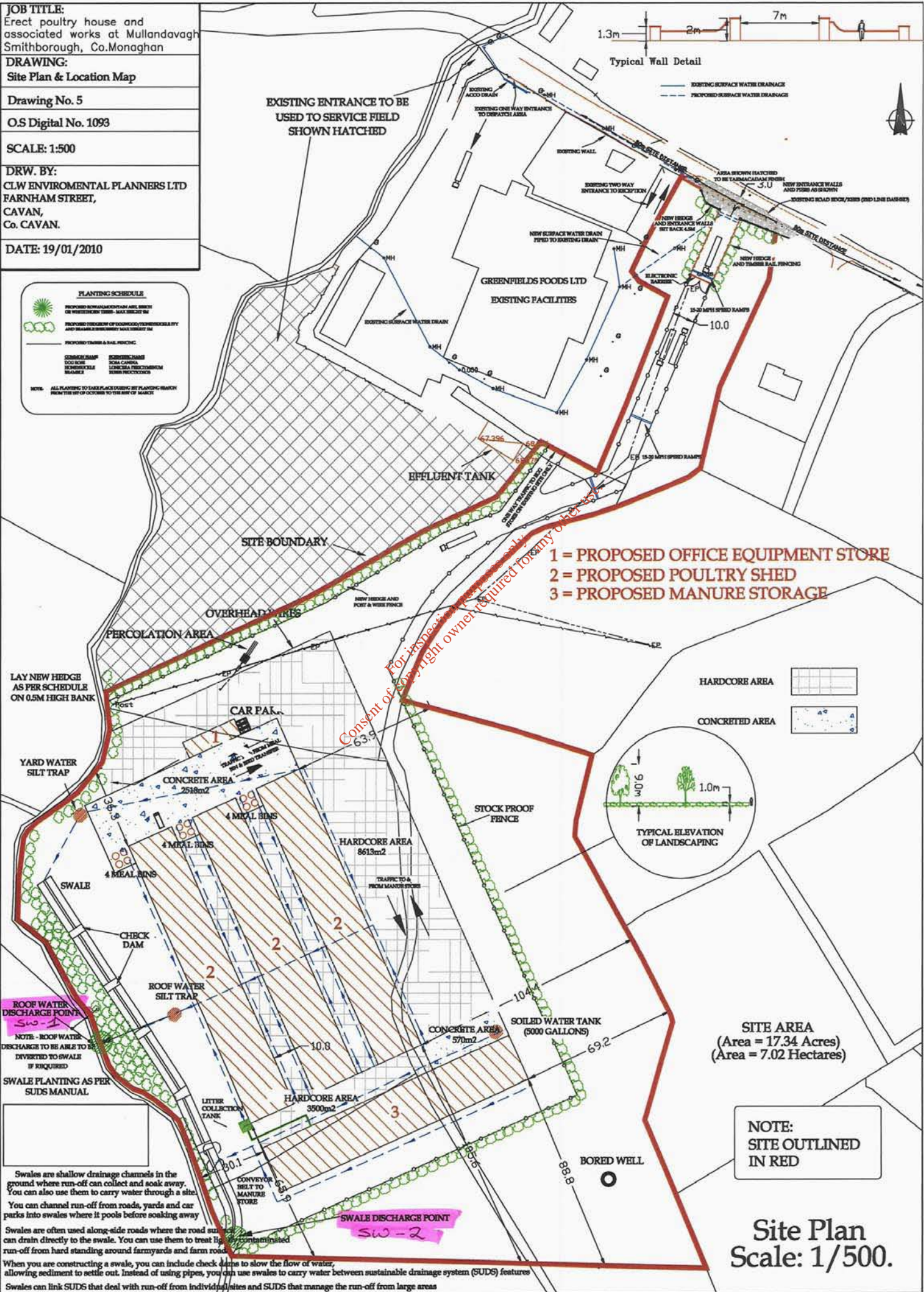
**DRW. BY:**  
CLW ENVIRONMENTAL PLANNERS LTD  
FARNHAM STREET,  
CAVAN,  
Co. CAVAN.

**DATE: 19/01/2010**

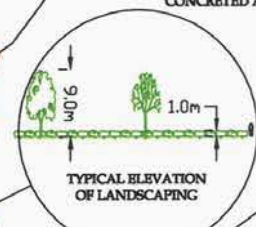
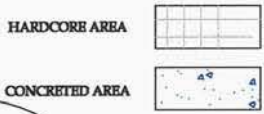
**PLANTING SCHEDULE**

PROPOSED BORNALANUCASTAN ARE BIRCH OR WINTERGREEN TREES - BLACK BIRCH 100	PROPOSED TREES & B&L PLANTING
PROPOSED TREES OF 100MM DBH/10M HEIGHT OR 150MM DBH/15M HEIGHT	COMMON HAMP
PROPOSED TREES & B&L PLANTING	SOUL BIRCH
PROPOSED TREES & B&L PLANTING	SPRING HAMP
PROPOSED TREES & B&L PLANTING	SOUL CANOPY
PROPOSED TREES & B&L PLANTING	LONG LEAF HEDYCLYMUM
PROPOSED TREES & B&L PLANTING	SHRUB PROTECTORS

**NOTE:** ALL PLANTING TO TAKE PLACE DURING THE PLANTING PERIOD FROM THE END OF OCTOBER TO THE END OF MARCH



- 1 = PROPOSED OFFICE EQUIPMENT STORE
- 2 = PROPOSED POULTRY SHED
- 3 = PROPOSED MANURE STORAGE



**SITE AREA**  
(Area = 17.34 Acres)  
(Area = 7.02 Hectares)

**NOTE:**  
SITE OUTLINED  
IN RED

**Site Plan**  
Scale: 1/500.

Swales are shallow drainage channels in the ground where run-off can collect and soak away. You can also use them to carry water through a site. You can channel run-off from roads, yards and car parks into swales where it pools before soaking away. Swales are often used along-side roads where the road surface can drain directly to the swale. You can use them to treat polluted run-off from hard standing around farmyards and farm roads. When you are constructing a swale, you can include check dams to slow the flow of water, allowing sediment to settle out. Instead of using pipes, you can use swales to carry water between sustainable drainage system (SUDS) features. Swales can link SUDS that deal with run-off from individual sites and SUDS that manage the run-off from large areas.





CLW Environmental Planners Ltd.

The Mews,  
23 Farnham Street,  
Cavan,  
Co. Cavan

Phone: 049-4371447/9

Fax: 049-4371451

E-mail: mews@iol.ie

Office of Licensing Climate and Resource Use,  
Environmental Protection Agency,  
P.O. Box 3000,  
Johnstown Castle Estate,  
Co. Wexford

19<sup>th</sup> April 2010

**Re: Greenfield Foods Ltd. ~ Fertiliser Plan 2010**

Dear Sir/Madame,

I refer to the attached customer list submitted on behalf of the above mentioned client.

The fertiliser plans for all farms referenced in the customer list have been completed on the basis of the most recent, N and P statement/other information such as stock numbers and REPS plan information provided by the customer farmer and/or a combination of these where applicable, in line with the requirements of S.I. 101 of 2009. This list may be revised with new customers/updated information throughout 2010.

The customer list outlines all the required summary details and any additional information required as per the I.F.A. / E.P.A. agreement will be maintained on site.

In my professional opinion animal manure may be used to fertilise these farmland areas and the application of poultry manure from this farm to these customer farmers, in the quantities identified, and in a manner that complies with the code of good agricultural practice and European Communities (Good Agricultural Practice for Protection of Waters) Regulations, 2009 (S.I. No. 101 of 2009) will not cause and is not likely to cause significant environmental pollution.

Should you require any additional information please do not hesitate to contact me.

Yours Sincerely,



Paraic Fay B.Agr.Sc.

## Greenfield Foods Ltd. ~ Proposed Customer List

<b>Farm No.</b>	<b>Townlands</b>	<b>County</b>	<b>Total tonnes Required</b>
1	Louthill, Rathmullan, Newtown, Carranstown, Stalleen, Bellewstown	Louth & Meath	771.62
2	Sarsfieldstown, Gormanstown, Bey More, Keenoge, Rogerstown	Meath	310.09
3	Rahill, Briarieas, Flemingstown, Sicily, Loughanstown, Bellewstown Bey Beg, Bey More, Carnes West, Colp West, Corballis, Drumman Mullaghfin, Deenes, Moorepark	Meath	1,652.73
4	Bryanstown, Platin, Pilltown, Shallon, Clinstown, Killineer, Bryanstown Caulstown, Gafney, Redmountain, Annagor, Ninch, Sevitsland	Louth & Meath	1,102.31
5	Downestown, Drumman, Gillintsown, Lougher	Meath	433.67
6	Kiltrough, Ministown, Sevitsland, Hilltown, Roadman, Gaffney Little Hilltown Little, Hilltown Great	Meath	1,120.73
7	Collierstown	Meath	382.46
8	Oakley Park, Mooneystown, Castletown, Fordstown, Chamberlainstown, Townspark, Oakstown, Clonfane	Meath	976.80
9	Ballynulmore, Gravelstown, Sedenrath, Batterstown, Carlanstown	Meath	415.22
10	Balsaw, Wilkinstown, Demailstown, Arodstown, Abbeyland, The Graigs	Meath	800.68
11	Balreask, Headford Demesne, Girley, Newtown Girley, Clonmeath, Ballymore	Meath	1,349.49
12	Balreask, Headford Demesne	Meath	248.27
13	Arch Hall, Rathcoon, Corballis, Scottstown	Meath	721.35
14	Corballis, Scottstown, Coghalstown, Wilkinstown	Meath	79.92
15	Croboy, Heathstown, Galmoyestown Lower, Hodgestown, Rathwire Lower Knocksimon, Clondalever, Kilpatrick	Westmeath	348.77
16	Corbetstown, Derrygreenagh, Milltown, Pass of Kilbride, Gortnahorna, Toor	Meath, Offaly & Westmeath	502.97



17	Mountmurray, Rathbennett	Westmeath	225.81
18	Newtown, Castlelost West, Clonfad, Farthingstown, Fearmore, Gallstown, Rattin	Westmeath & Offaly	277.16
19	Shanonagh, Tyfarnham, Knightswood, Rathlevanagh	Westmeath	392.03
20	Farthingstown, Fearmore, Oldtown, Gaybrook Demesne, Gibbonstown Gaddaghanstown, Calverstown, Castlelost West, Collinstown, Kilbride, Drummin	Westmeath	489.35
<b>Total</b>			<b>12,601.39</b>
<b>Estimated Manure Production (ton/annum)</b>			<b>6,915.09</b>
<b>Capacity %</b>	=		<b>182.23</b>

Note: this list may be added to/revised, depending on customer demand. A record will be maintained of all consignments of manure despatched from this farm.

**Poultry (Layer) manure**      **N Content = 23 kg/ton**  
**P Content = 5.5 kg/ton**

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