

From: Trevor Montgomery [<mailto:trevor@mehs.ie>]
Sent: 04 March 2013 21:36
To: Pamela McDonnell
Subject: Ballyfaskin Enterprises

Pamela

Please find nutrient management plan

I do not have the maps Pat is chasing them down at the moment, he feels that the N&P statement are sufficient but I know that these are required.

Regards
Trevor

Trevor Montgomery
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04th March 2013



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Re: TO WHOM IT MAY CONCERN

I have completed Fertilizer Plans for Farm Codes attached, to recover Pig Manure from Ballyfaskin Enterprises Ltd Pig Farm (IPC License Ref PO915-01), during 2013. These Plans comply with the requirements of the European Communities (Good Agricultural Practice for Protection of Waters) Regulations, S.I. No 610 of 2010.

Summary Information of the customer list of farms, whereupon this pig manure is to be recovered, is attached, and a more detailed report is available on site for inspection by any relevant authority.

In my professional opinion, pig manure may be used to fertilize any of the farms included, and the application of pig manure from the above referenced IPPC Licensed facility, in accordance with the allocations set out, and in a manner that complies with the European Communities (Good Agricultural Practice for Protection of Waters) Regulations S.I. No 610 of 2010, will not cause, and is not likely to cause, significant environmental pollution.

Regards

A handwritten signature in blue ink that reads "Trevor Montgomery".

Trevor Montgomery, Post Grad Dip, BSc, Dip Mgmt, Dip Poll Ass & C,
Cert Env'n Mont, Cert HSWW
Environmental and Health & Safety Consultant.



**BALLYFASKIN ENTERPRISES
LTD
NUTRIENT MANAGEMENT
PLAN FOR THE APPLICATION
OF PIGGERY SLURRY FROM
BALLYFAUSKIN,
BALLYLANDERS, COUNTY
LIMERICK.**

February 2012

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1.0 Introduction

This document comprises a proposed Nutrient Management Plan for the Lands in County Tipperary, Limerick and Cork for Ballyfaskin Enterprises Ltd and the following locations for the purposes of recycling nutrients from pig slurry.

Farm No.	Herd No.	Name	Address	Land Area	Import Capacity Pig Slurry (m ³)
1	D3541020	Jack Mullins	Castletown, Kildorrey, Co. Cork	102	1,033
2	D3540180	Dermot Casey	Oldcastletown, Kildorrey, Cork	45	1584
3	M1161920	Anne-Maire Fitzgerald	Glenahoglisha, Ballylanders, Limerick	18	633
4	V2450983	William Aherne	The Village Tavern, Lattin, Tipperary	50	921
5	V2300221	Michael Burke	Ballycrana, Kilross, Tipperary	73	2686
6	M1191306	Patrick Dalton	Ballyfruta, Garryspillane, Kilmallock, Limerick	61	2467
7	M1152003	Brendan Lane	Galtee View, Ballylanders, Limerick	34	648
8	V2430605	Michael O'Riordan	Moanmore, Emily, Tipperary	28	549

Farm No.	Herd No.	Name	Address	Land Area	Import Capacity Pig Slurry (m ³)
9	V2450134	Margaret Hourigan	Ballinglanna, Lattin, Tipperary	55	288
10	V2420839	Thomas Moloney	Lattin East, Lattin, Tipperary	38	303
11	V2291214	Patrick Ryan	Ballyfaskin, Ballylanders, Limerick	29	458
12	M1101382	Daniel Henebry	Kilscannell, Galbally, Limerick	28	323
13	M1091611	Michael McCarthy	Park, Galbally, Limerick	61	571
14	V2420664	Charles Mcore	Moorekort, Lattin, Tipperary	175	4636
15	M104335X	Simon Ryan	Garrydoorlis, Pallasgreen, Limerick	102	796
16	M1031514	Andrew Ryan	Duntryleague, Galbally, Limerick	81	164
17	M1092006	Daniel Baxcell	Lissard, Galbally, Limerick	33	773
18	M1192108	John Sampson	Main Street, Ballylanders, Limerick	41	1290
19	V242003X	Brendan O'Halloran	Moorefort, Kilross, Tipperary	14	303
20	M1351443	Heather Hennessy	Ballingoola, Holycross, Limerick	39	1025
21	M1081667	Michael W Davern	Curraghroche, Galbally, Limerick	21	862
TOTALS				1,128	22,313

The Nutrient Management Plan (NMP) has been prepared in accordance with the requirements of:

- Part 3 (Nutrient Management Section) of SI610 of 2010 “European Communities (Good Agricultural Practice for Protection of Waters) Regulation” of 2010, (Nitrates Directive) which came into effect on the 20th December 2010. The NMP is prepared to comply with the “Nitrates Directive” and to allow for strategic management of the land bank.
- Land spreading of Organic Waste - Guidance on Groundwater Vulnerability Assessment of Land
- The Teagasc 2004 recommendations: Nutrient and Trace Element Advice for Grassland and
- Tillage Crops, Teagasc 2004 or The REPS 3 Recommendations: Dept. of Agriculture Food and Forestry, Rural Environmental Protection Scheme.

1.1 Pig Slurry Characteristics

The Slurry all arises from piggery operation. The slurry from the piggery operations is transported for land spreading on the land bank

The Nutrient Content of Piggery Slurry is calculated from SI610 of 2010 “European Communities (Good Agricultural Practice for Protection of Waters) Regulation” of 2010.

1.2 Nutrient Management Plan?

The Nutrient Management Plan (NMP) detailed below sets out the criteria, which are used to regulate and manage the land spreading of organic waste arising from the various installations in a way which will minimize the potential for environmental impacts.

The NMP facilitates management control over the land spreading activities for the different land banks.

The Nutrient Management Plan records the following information:

1. Area Reference Number

The unique reference number assigned to each farm 1 to 21.

2. Name and Address

The name and address of the landowner is recorded.

3. Map Reference

Each land spread area is referenced to a specific map area indicating its location.

4. The N & P Statement.

Each recipient farm will provide a N & P Statement prior to pig slurry been delivered

5. Land Use

The soil phosphorous level is taken to be representative of the area within which the sample was

The land use – crop and / or livestock rates – is taken into account.

The phosphorous requirement is derived on the basis of the soil P level and the current years land use utilising recommended factors as follows:

6. Phosphorous Requirement

On Farm P Estimate

An estimate should be made where possible of the quality and sources of on farm available phosphorous through manure, slurry and other external sources.

Net P Input

On the basis of the overall input requirement and the on farm available phosphorous, the net input requirement is calculated.

7. Pig Slurry Application

On the basis of the P concentration of the slurry, the total quality of pig slurry required is calculated.

1.3 Responsibility

The Site Operator is responsible for the implementation of the Nutrient Management Plan at the site.

The land spread personnel is responsible for managing the day-to-day land spreading activities, and maintain records of all landowners visited for spreading purposes.

2.0 Management, Transport of Land spreading of Pig Slurry

2.1 Traceability of product

Ballyfaskin Enterprises will provide for the traceable documentation, in a cradle to grave approach. Collection sheets will be provided to the contractor, who upon load collection will log all relevant data. Both the contractor and piggery management will sign off data sheets.

2.2 Method of transport, vehicle type

The slurry will be road transported from the piggery facility to the landbank in water tight tankers with high standard of cleanliness and road-worthy.

2.3 Land spreading & land spreading equipment

The storage sites will be within easy access of the land bank to accommodate the slurry. A reserve of 20% will be provided.

All land spreading equipment used will be to the highest standard. All transport container units will be of a high standard, leak-proof, clean and road-worthy.

3.0 Pig Slurry Management

The land bank has an available land spreading area of approximately 1128 hectares spread across 21 farms.

Site maps for the land spread areas are included in Attachment 2.

Ballyfaskin Enterprises are not responsible for the co-ordination and undertaking of the land spreading operation.

The type of farming carried out on the land bank is predominantly grass land in to addition grass coverage for silage is also included.

The site has sufficient capacity for the existing and proposed slurry volumes produced and land sufficient for 22,313 m³ of pig slurry. The site will produce 20,433 m³ of pig slurry in 2015 when the project is completed.

Table showing volume of effluent produced from existing stock (breakdown according to numbers and type of animals) Schedule 2 Table 1 of GAP Regs

Pig Type	Stock No	NEAT excreta (pig/week) Litres	Total Litres	Total (m3)
Farrowing Sows	127	312	39624.00	39.62
Dry Sows	273	312	85176.00	85.18
Boars	5	24	120.00	0.12
Gilts	100	24	2400.00	2.40
Weaner	2300	24	55200.00	55.20
Fattener	2500	24	60000.00	60.00
TOTAL PIG MANURE PER WEEK			242520.00	242.52
TOTAL PIG MANURE PER ANNUM			12611040.00	12611.04
EXTREANOUS WATER 8%			1008883.20	1008.88
TOTAL ANNUAL PRODUCTION PIG MANURE			13619923.20	13619.92

Showing volume of b) above including effluent produced from proposed stock (breakdown as above) as per Schedule 2 Table 1 of GAP Regs

Pig Type	Stock No	NEAT excreta (pig/week) Litres	Total Litres	Total (m3)
Farrowing Sows	190	312	59280.00	59.28
Dry Sows	410	312	127920.00	127.92
Boars	10	24	240.00	0.24
Gilts	150	24	3600.00	3.60
Weaner	3450	24	82800.00	82.80
Fattener	3750	24	90000.00	90.00
TOTAL PIG MANURE PER WEEK			363,840	364
TOTAL PIG MANURE PER ANNUM			18,919,680	18,920
EXTREANOUS WATER 8%			1,513,574	1,514
TOTAL ANNUAL PRODUCTION PIG MANURE			20,433,254	20,433

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4.0 Physical Characteristics of Land bank

The land bank comprises an available spread area of 1128 hectares, inclusive of the 21 proposed farms. This figure represents the total area of land, less defined buffer zones and excluded areas, and represents the actual area available for land spreading of slurry.

Farm No.	Herd No.	Name	Address	Land Area	Import Capacity Pig Slurry (m ³)
1	D3541020	Jack Mullins	Castletown, Kildorrey, Co. Cork	102	1,033
2	D3540180	Dermot Casey	Oldcastletown, Kildorrey, Cork	45	1584
3	M1161920	Anne-Maire Fitzgerald	Glenahoglisha, Ballylanders, Limerick	18	633
4	V2450983	William Aherne	The Village Tavern, Lattin, Tipperary	50	921
5	V2300221	Michael Burke	Ballycrana, Kilross, Tipperary	73	2686
6	M1191306	Patrick Dalton	Ballyfruta, Garryspillane, Kilmallock, Limerick	61	2467
7	M1152003	Brendan Lane	Galtee View, Ballylanders, Limerick	34	648
8	V2430605	Michael O'Riordan	Moanmore, Emily, Tipperary	28	549
9	V2450134	Margaret Hourigan	Ballinglanna, Lattin, Tipperary	55	288
10	V2420839	Thomas Moloney	Lattin East, Lattin, Tipperary	38	303

Farm No.	Herd No.	Name	Address	Land Area	Import Capacity Pig Slurry (m ³)
11	V2291214	Patrick Ryan	Ballyfaskin, Ballylanders, Limerick	29	458
12	M1101382	Daniel Henebry	Kilscannell, Galbally, Limerick	28	323
13	M1091611	Michael McCarthy	Park, Galbally, Limerick	61	571
14	V2420664	Charles Mcore	Moorekort, Lattin, Tipperary	175	4636
15	M104335X	Simon Ryan	Garrydoorlis, Pallasgreen, Limerick	102	796
16	M1031514	Andrew Ryan	Dunryfeague, Galbally, Limerick	81	164
17	M1092006	Daniel Baxcell	Lissard, Galbally, Limerick	33	773
18	M1192108	John Sampson	Main Street, Ballylanders, Limerick	41	1290
19	V242003X	Brendan O'Halloran	Moorefort, Kilross, Tipperary	14	303
20	M1351443	Heather Hennessy	Ballingoola, Holycross, Limerick	39	1025
21	M1081667	Michael W Davern	Curraghroche, Galbally, Limerick	21	862
TOTALS				1,128	22,313

5.0 Assessment of Land bank

The source and resource vulnerability assessment of the land areas carried for Ballyfaskin Enterprises Ltd concludes that “land spreading on the both land banks will not have a significant impact on groundwater, providing that it is carried out in accordance with normal good practices and all spreading takes place outside the buffer zones”. The report confirms a minimum thickness of soil of >1m throughout the land bank.

The assessment of Land areas, conducted during the formulation of this Nutrient Management Plan concludes that:

- The aquifers underlying the land spread areas are classed as Minor.
- The vulnerability of the groundwater underlying the land spread areas is generally rated as Low and not above high.
- There has been no recorded impact on either ground- or surface waters in the locality.
- Taking account of the above, the potential impact on groundwater sources and resources arising from the activity will be limited.

6.0 Nutrient Management Plan

This Nutrient Management Plan forms an integral part of the Ballyfaskin Enterprises Ltd covering land spreading activities across the land banks.

The plan has as its basis, the beneficial economic effects from increased crop yields available to landowners as a result of the safe application of pig slurry on agricultural land. The plan is based on the sole application of pig slurry to meet crop phosphorous and nitrogen requirements.

The essential component of the plan is the matching of phosphorous and nitrogen inputs with crop requirements as a means of ensuring sustainable application over time.

The Nutrient Management Plan records the following information (numbering corresponds to numbers used on the plan in Attachment 1).

1 *Field Ref.*

Reference number for each field/plot within each land area. Numbers correspond to map numbering.

2. *Soil Index*

The soil index (1 to 4) is given for each field/plot on the basis of measured soil phosphorous levels. No spreading of pig slurry will take place on Index 4 soils.

3. *Crop Type*

The crop type for the 2012 season is grass for grazing and silage

4. *Phosphorous Requirement*

The phosphorous requirement is derived on the basis of the soil index and the current year's crop type, taking Teagasc recommended input requirements.

5. *Net P Import*

The net input requirement is calculated on the basis of the input requirement for each filed/plot by the usable area of each filed/plot in hectares.

6. *Slurry Application Quantity*

On the basis of the P concentration of the pig slurry, the total quality of slurry required is calculated.

7.0 Proposed Land spreading Operations.

The 2013 land spreading activities will be carried out in accordance with the attached Plan (Attachment 1).

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Attachments

Attachment 1	Nutrient Management Plan 2012
Attachment 2	Land area
Attachment 3	Fertiliser Statements

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Attachment 1
Nutrient Management Plan 2013

Farm No.	Herd No.	Name	Address	Land Area	Import Capacity Pig Slurry (m ³)
1	D3541020	Jack Mullins	Castletown, Kildorrey, Co. Cork	102	1,033
2	D3540180	Dermot Casey	Oldcastletown, Kildorrey, Cork	45	1584
3	M1161920	Anne-Maire Fitzgerald	Glenahoglisha, Ballylanders, Limerick	18	633
4	V2450983	William Aherne	The Village Tavern, Lattin, Tipperary	50	921
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6	M1191306	Patrick Dalton	Ballyfruta, Garryspillane, Kilmallock, Limerick	61	2467
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9	V2450134	Margaret Hourigan	Ballinglanna, Lattin, Tipperary	55	288
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15	M104335X	Simon Ryan	Garrydoorlis, Pallasgreen, Limerick	102	796
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17	M1092006	Daniel Baxcell	Lissard, Galbally, Limerick	33	773
18	M1192108	John Sampson	Main Street, Ballylanders, Limerick	41	1290
19	V242003X	Brendan O'Halloran	Mooresfort, Kilross, Tipperary	14	303
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TOTALS				1,128	22,313

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Table showing effluent storage capacities of all existing slurry storage facilities (clearly labelled and referencing drawings previously submitted).

Table A

Building	Tank length m	Tank Width m	Tank Area m ²	Tank Depth m	Capacity m ³	Effective Capacity (m ³) with 200 mm freeboard
Fattening hse no. a	23.0	7.3	167.9	0.6	100.7	67.2
Fattening hse no. b	20.5	5.3	108.7	1.8	195.6	173.8
Fattening hse no. c	43.3	5.1	220.8	1.8	397.5	353.3
Farrowing hse no. d	12.0	12.0	144.0	0.6	86.4	57.6
Farrowing hse no. e	30.5	12.7	387.4	0.9	348.6	271.1
Farrowing hse no. f	14.8	13.0	192.4	0.9	173.2	134.7
Gilt hse no. g	18.3	11.8	215.9	0.9	194.3	151.2
Open tank no. h	8.7	6.6	57.4	2.5	143.6	132.1
Fattening hse no. i	69.2	19.9	1377.1	1.8	2478.7	2203.3
First weaner hse. j	30.3	11.0	333.3	0.6	200.0	133.3
First weaner hse no. k	15.5	11.2	173.6	0.6	104.2	69.4
2nd stage weaner hse no. l	29.4	17.9	526.9	1.2	631.5	526.3
2nd stage weaner hse no. m	16.4	11.3	185.3	1.2	222.4	185.3
Dry sow hse no. n	46.4	20.6	955.8	1.8	1720.5	1529.3
Fattening hse no. o	21.7	21.5	466.6	1.8	839.8	746.5
Fattening hse no. p	23.6	10.4	245.4	1.8	441.8	392.7
Total					8278.7	7127.2

Table B Table showing volume of effluent produced from existing stock (breakdown according to numbers and type of animals) Schedule 2 Table 1 of GAP Regs

Current Stocking					
Pig Type	Stock No	NEAT excreta (t)	Total Litres	Total (m3)	
Farrowing Sows	127	312	39624.00	39.62	
Dry Sows	273	312	85176.00	85.18	
Boars	5	24	120.00	0.12	
Gilts	100	24	2400.00	2.40	
Weaner	2300	24	55200.00	55.20	
Fattener	2500	24	60000.00	60.00	
TOTAL PIG MANURE PER WEEK					
			242520.00	242.52	
TOTAL PIG MANURE PER ANNUM					
			12611040.00	12611.04	
EXTREANOUS WATER 8%					
			1008883.20	1008.88	
TOTAL ANNUAL PRODUCTION PIG MANURE					
			13619923.20	13619.92	

Weeks Storage

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Table C
Summary table showing a) above and including proposed effluent storage facilities.

Building	Tank length		Tank Width		Tank Area		Tank Depth		Capacity		Effective Capacity (m ³)	
	m	m	m	m ²	m	m ³	m	m ³	with 200 mm freeboard			
Proposed	48.8	21.9	1068.1	1.8	1922.5	1,709						
Proposed	52.9	12.0	634.6	1.8	1142.2	1,015						
	30.5	12.7	387.4	0.9	348.6	271						
	14.8	13.0	192.4	0.9	173.2	135						
Proposed	52.9	12.8	676.9	1.8	1218.4	1,083						
	69.2	19.9	1377.1	1.8	2478.7	2,203						
	30.3	11.0	333.3	0.6	200.0	133						
	15.5	11.2	173.6	0.6	104.2	69						
	29.4	17.9	526.3	1.2	631.5	526						
	16.4	11.3	185.3	1.2	222.4	185						
	46.4	20.6	955.8	1.8	1720.5	1,529						
	21.7	21.5	466.6	1.8	839.8	746						
	23.6	10.4	245.4	1.8	441.8	393						
Proposed	52.9	22.6	1192.4	1.8	2146.4	1,908						
Proposed	71.8	21.3	1531.8	1.8	2757.2	2,451						
Proposed	71.8	21.3	1531.8	1.8	2757.2	2,451						
Proposed	71.8	21.3	1531.8	1.8	2757.2	2,451						
Total					16347.3	14,358						

Showing volume of b) above including effluent produced from proposed stock (breakdown as above) as per Schedule 2 Table 1 of GAP Regs

Table D

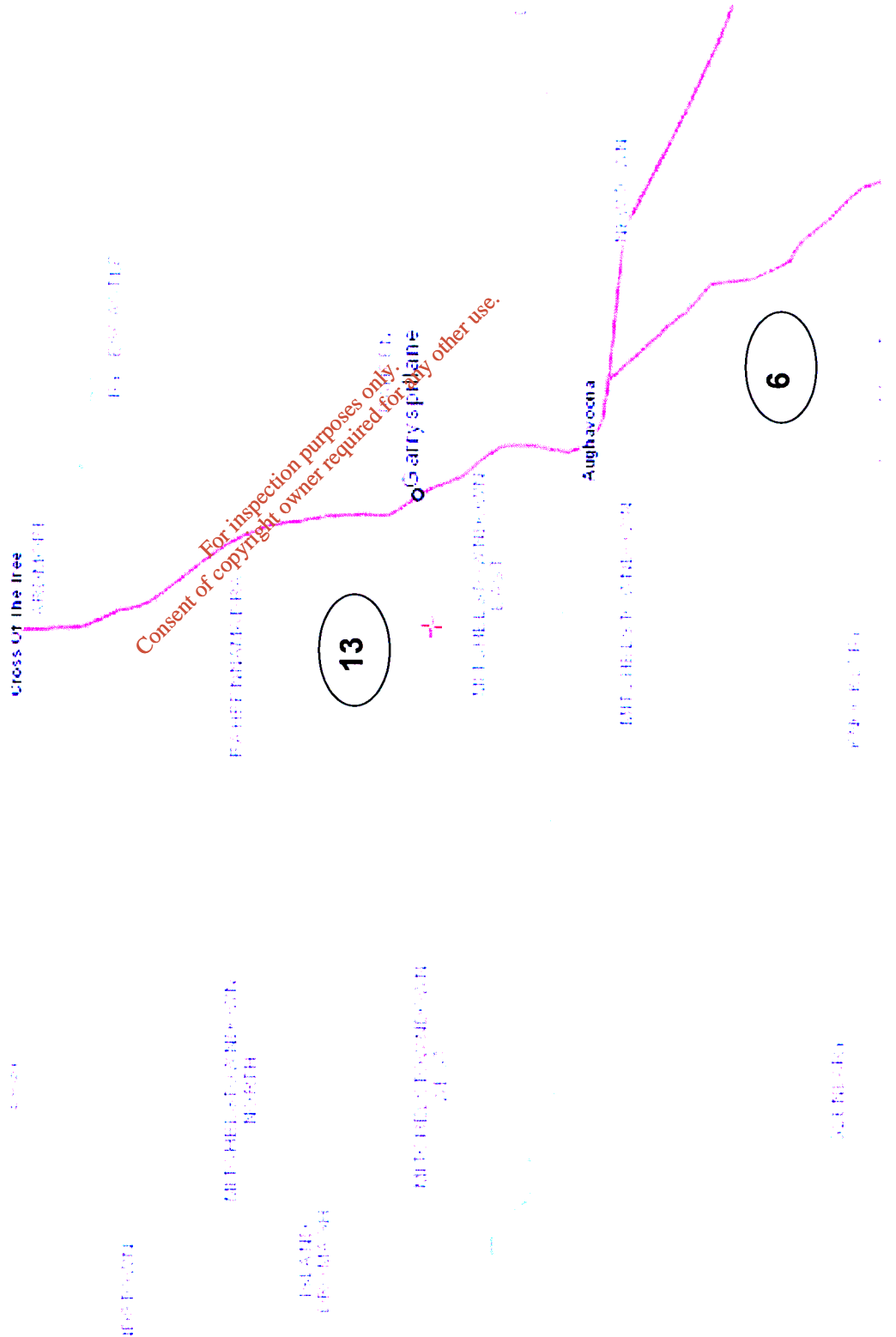
Proposed Stocking				
Pig Type	Stock No	NEAT excreta (#)	Total Litres	Total (m3)
Farrowing Sows	190	312	59280.00	59.28
Dry Sows	410	312	127920.00	127.92
Boars	10	24	240.00	0.24
Gilts	150	24	3600.00	3.60
Weaner	3450	24	82800.00	82.80
Fattener	3750	24	90000.00	90.00
TOTAL PIG MANURE PER WEEK			363,840	364
TOTAL PIG MANURE PER ANNUM			18,919,680	18,920
EXTREANOUS WATER 8%			1,513,574	1,514
TOTAL ANNUAL PRODUCTION PIG MANURE			20,433,254	20,433

Weeks Storage

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Attachment 2

Land area



Legend

Field Outline

5

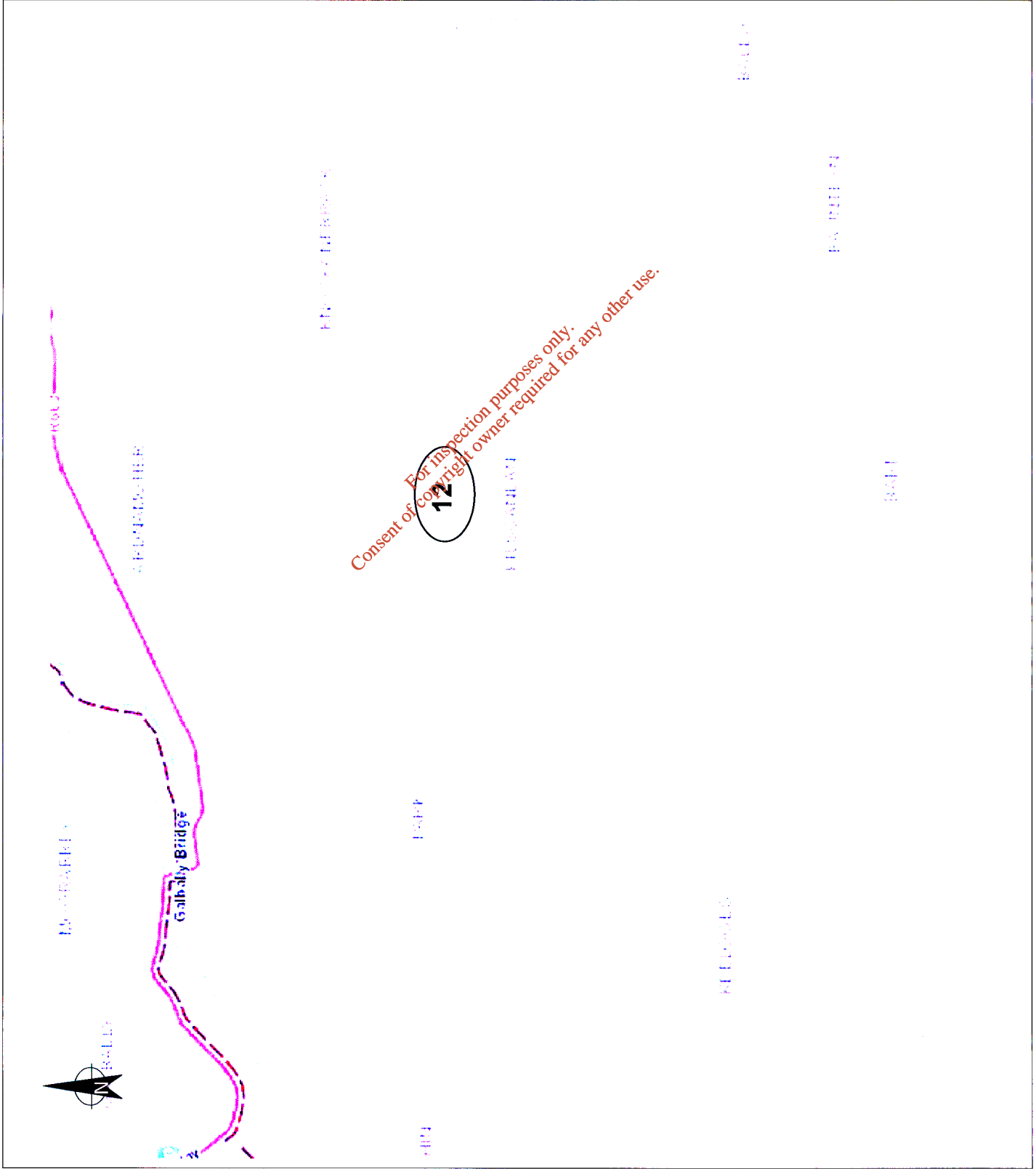
Field Number

Excluded Area

Issue No.	Date	By	Checked	Approved	Note Ref	Date Scanned

**BALLYFASKIN
ENTERPRISES LTD**

Client		BALLYFASKIN ENTERPRISES	
Title		Landbank 3	
Scale	NTS	Project No.	
Figure No.	Figure 3	Rev.	A



Legend

Field Outline

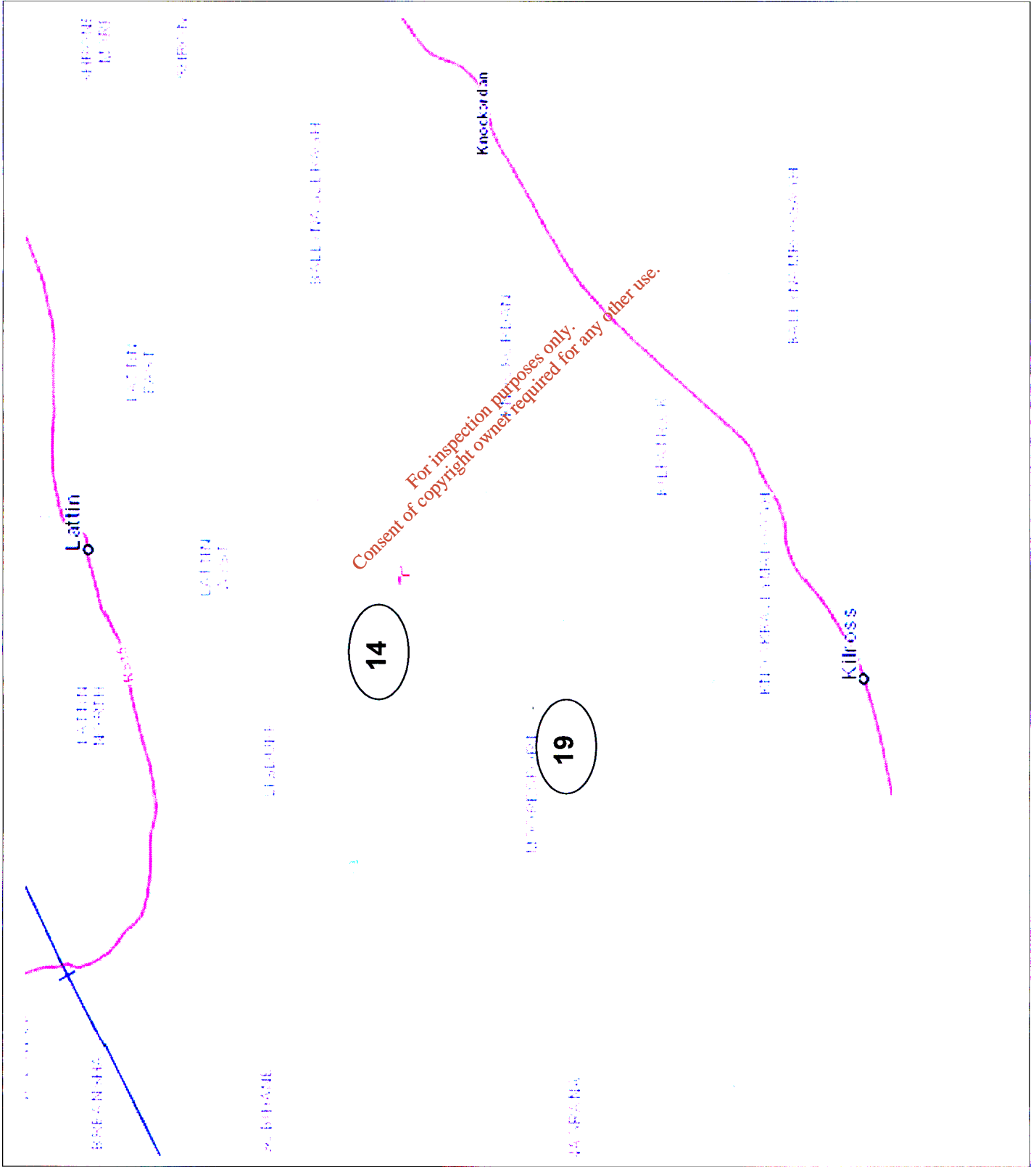
5

Field Number

Issue no.	Date	By	Checked	Approved	Note Ref	Date Scanned

BALLYFASKIN ENTERPRISES LTD

Client	BALLYFASKIN ENTERPRISES		
Title	Land Bank 5		
Scale	NTS	Project No.	
Figure No.	Figure 5	Rev.	A



Legend

Field Outline

5

Field Number

Issue no.	Date	By	Checked	Approved	Note Ref	Date Scanned

BALLYFASKIN ENTERPRISES LTD

Client	BALLYFASKIN ENTERPRISES	
Title	Land Bank 9	
Scale	NTS	Project No.
Figure No.	Figure 7	Rev.

Legend

Field Outline

5

Field Number

Issue No. Date By Checked Approved Note Ref Date Scanned

**BALLYFASKIN
ENTERPRISES LTD**

Client **BALLYFASKIN ENTERPRISES**

Title **Land Bank 10**

Scale: **NTS** Project No.

Figure No. **Figure 7**

Rev.

