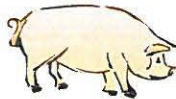


APPENDIX NO. 7

UPDATED NMP REPORT FOR LIQUID DIGESTATE

*For inspection purposes only.
Consent of copyright owner required for any other use.*

**NRGE
MOORESFORT
LATTIN
Co TIPPERARY
Tel; 062-55385
Fax; 062-55483
Email m.sweeney@nrge.ie**



MANAGEMENT OF PIG MANURE DIGESTATE

FERTILISER PLAN

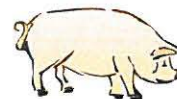
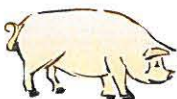
FOR

I.P.C. LICENCE REG No PO 0467-02

AT

**WOODVILLE, BALLYMACKEY, NENAGH
CO TIPPERARY**

*For inspection purposes only.
Consent of copyright owner required for any other use.*



JUNE 2010

1. INTRODUCTION

- 1.1 This report has been prepared in support of an IPPC License Review for the development of an anaerobic digester to treat the pig manure produced by the pig breeding unit at Woodville Ballymackey, Nenagh, Co Tipperary, and the pig fattening unit at Ballyknockane, Ballymackey, Nenagh, Co Tipperary, which are owned and operated by Woodville Pigs Ltd.
- 1.2 This pig unit owned by Woodville Pigs Ltd at Woodville, Ballymackey, Nenagh, Co Tipperary, has the benefit of full planning permission and currently operates under the conditions of I.P.C. Licence Ref No PO 0467-01. This licence permits the operation of a 1000 Sow Breeding unit. A request for Review is currently being processed by the Agency to add a fattening unit to this license, and to increase the breeding herd to 1200 sows. The relevant planning applications will be processed in parallel with the Agency review. This would then be a fully integrated facility.
- 1.3 The estimated level of pig manure production from this integrated facility after this development would be 26317 m³ approx, in accordance with the calculations set out in Table 1.
- 1.4 Eighty two customer farms comprising of 4273 usable hectares of agricultural land are programmed to use this pig manure digestate fertiliser currently. A fertiliser plan has been provided by each individual customer farmer. This plan has been compiled based upon, the phosphorus level in the soil, the phosphorus and organic nitrogen produced on the farm (Nitrogen & Phosphorus Statements), the phosphorus and organic nitrogen content of the pig manure digestate, and the limit to the amount of nitrogen that can be spread from pig manure. (i.e. 170 Kgs per hectare).
- 1.5 All customer farmers will be advised that application of pig manure digestate must be carried out in accordance with the recommendations of the European Communities (Good Agricultural Practice for Protection of Waters) Regulations 2006 S.I. No. 101 of 2009.
- 1.6 An individual fertiliser plan has been produced by each farm, which qualifies for an allocation of pig manure digestate. These individual farm fertiliser plans are included as Attachment No 3. These individual fertiliser plans are presented as a farm pack, which includes a map (scale 1:10560), a summary analyses report of the most recent soil P tests, along with the fertiliser plan on the newly drafted 11B(ii) format.
- 1.7 A composite map of the customers farms is included as Attachment No 2. This map was prepared from the O.S. Discovery Series; (Scale 1:50,000). This list of customers have a capacity to recover a greater volume of pig manure digestate than will be produced in the coming year.
- 1.8 The individual fertiliser plans included in the farm packs in Attachment No 3, are prepared on the basis of the most recent soil analyses results and "THE DEPARTMENT OF AGRICULTURE & FOOD RECOMMENDATIONS (S.I. No. 101 of 2009). Many of these farms did not have soil analyses results, and in these cases we utilised the provision of Article 16 2(a), page 12 of S.I. No 101 of 2009, which provides for the use of an assumed Index 3. In some cases a certificate was received from REPS planners, regarding the volume of pig manure to be imported to their clients farms.
- 1.9 Table 11B(I) of the IPC Licence application has been updated and is included as Attachment No 1.
- 1.10 The abbreviations used in the individual fertiliser plans, included in Attachment No 3 are
- | | |
|------|-------------------|
| PP | Permanent pasture |
| 1CS | 1 Cut silage |
| 2CS | 2 Cut silage |
| 3CS | 3 Cut silage |
| MZ | Maize |
| SA | Set Aside |
| Bar | Barley |
| Beet | Sugar Beet |

2. PIG MANURE USE.

All the pig manure produced at this site, will be applied to maintain soil fertility. Eighty two customer farmers in the locality with a total of 4273 usable hectares are customers for the product, after allowing for “cordon sanitaires” around streams and rivers, dwelling houses, and rock outcrops. On the basis of this data, and the “DEPARTMENT OF AGRICULTURE & FOOD RECOMMENDATIONS (S.I. No. 101 Of 2009)”, a plan was produced for each farm.

A value of 0.4 kgs P/m³, and 5.0 kgs N/m³ of pig manure digestate from this unit was used in the calculation of the individual farm fertiliser programmes, in accordance with the calculations set out in Table 2, below. This calculation is based on pig manure and imported waste proposed volumes.

In relation to the application of pig manure digestate, phosphorus and nitrogen are the two elements of concern in relation to the environment. Phosphorus, if applied in excess, builds up in the surface layers of the soil. In sensitive areas, with direct access to watercourses and streams, the level of phosphorus in the soil must be managed by controlling the application.

Nitrogen, because it is readily leached into the groundwater, if applied out of season, when the grass roots are not actively growing, and there are substantial fluxes of soil water percolating downwards as recharge. However these risks are mitigated, by the fact that pig manure from this unit will only be applied when growing conditions exist, and at rates governed by a fertiliser plan.

Soil P levels in the selected customers lands are generally low, and well below that required for optimum crop production, and could benefit from the application of pig manure digestate. Farmers will receive pig manure digestate, based on their individual fertiliser plans.

The fertiliser in the pig manure digestate will substitute for chemical fertiliser, except where a limited amount (chemical fertiliser), is required for balancing purposes. In all cases the rate of application will be matched to the nutrient requirements of the crop, and the nutrient status of the soil.

The total phosphorus requirement of the eighty two customer farms is 70,552.4 Kgs, after allowing for the phosphorus supplied from the on farm livestock. Pig manure digestate is allocated to these farms on the basis of their crop nutrient requirement. The projected total P content of the pig manure digestate from this site, for 2010, is 14706 Kgs, which is calculated from projected volumes (see Table 2').

Table 3 attached outlines the usable area, phosphorus requirement, and pig manure digestate allocation of each customer farm.

TABLE 1. CALCULATION OF PIG MANURE PRODUCTION

PIG TYPE	NUMBER OF STOCK	NEAT excreta Pig/week (litres)	Total Litres	Total M3
Farrowing Sows	350	115	40250	40.25
Dry Sows	850	53	45050	45.05
Boars	15	53	795	0.80
Gilts	300	53	15900	15.90
Weaner	6600	15	99000	99.00
Fattener	8000	34	272000	272.00
Total Pig Manure per week			472995	473
Total Pig Manure per annum			24595740	24596
Extreanous water 7%			1721702	1722
Total annual production pig manure			26317442	26317

TOTAL PIG MANURE TO BE LANDSPREAD 26317 M3

TABLE 2: CALCULATION OF DIGESTATE PRODUCTION & NUTRIENT CONTENT

TYPE	ESTIMATED VOLUME M3	KGS N/M3	KGS P/M3
PIG MANURE	26317	4.2	0.8
DAIRY SLUDGE	8500	5.5	3.7
BELLYGRASS	7500	5	1
BIOFUEL RESIDUE	4500	4.5	1
MILL WASTE	500	4	0.05
CHICKEN LITTER	1500	11	6
TOTALS	48817.44	4.8	1.5
VOLUME REDUCTION DUE TO GAS EXTRACTION @ 10%	4881.74		
ACTUAL VOLUME DIGESTATE PRE SEPERATION	43935.70	5.3	1.7
PROPOSED SEPERATION PROCESS TO REMOVE MIN 70% P & 15% N WITH FIBRE			
TYPE	ESTIMATED VOLUME M3	KGS N/M3	KGS P/M3
PRESEPERATION	43935.69762	5.3	1.7
LIQUID DIGESTATE	39542.12786	5.02	0.4
FIBEROUS DIGESTATE	4393.569762	8.0	13.4
LIQUID DIGESTATE FOR LAND APPLICATION AS FERTILIZER			
			TOTAL KGS
VOLUME M3	39542.12786		
KGS P/M3	0.4		14705.8
KGS N/M3	5.0		198503.3
FIBEROUS DIGESTATE FOR USE OFF SITE			
			TOTAL KGS
VOLUME M3	4393.569762		
KGS P/M3	13.4		58823.2
KGS N/M3	8.0		35030.0

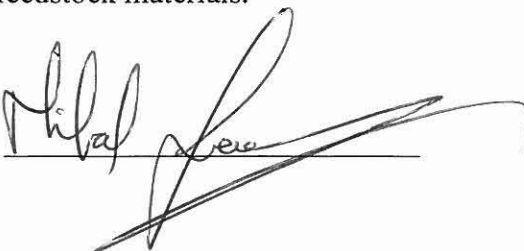
TABLE 3: Summary details of Customer Farms for 2008

F.C.	ALLOCATION M3	Kgs P Req	AREA (Ha)
1	155	226.35	15.09
2	300	512.25	34.15
3	0	0.00	0
4	250	478.65	31.91
5	500	355.00	14.2
6	260	557.40	37.16
7	0	0.00	0
8	200	258.90	17.26
9	440	381.90	25.46
10	1100	497.85	33.19
11	80	931.80	62.12
12	1590	1192.25	66.91
13	568	848.55	56.57
15	800	361.95	24.13
16	550	1193.55	79.57
17	0	0.00	0
18	0	0.00	0
19	1850	2224.05	148.27
20	345	297.30	19.82
21	0	0.00	0
22	7500	6300.00	252
24	1450	1183.05	78.87
25	0	0.00	0
26	0	0.00	0
27	0	0.00	0
28	0	0.00	0
29	3100	2431.10	141.32
30	770	718.20	47.88
31	1600	1618.70	91.98
32	420	352.75	14.11
33	310	821.40	54.76
34	200	970.05	64.67
35	1280	849.00	56.6
36	1100	820.50	54.7
37	0	0.00	0
38	0	0.00	0
39	0	0.00	0
40	380	291.45	19.43
41	900	674.10	44.94
42	160	907.50	57.3
43	1250	1091.10	72.74
44	830	2211.2	118.3
46	900	2103.9	140.26
47	130	1689	122
48	400	1082.9	69.84
49	195	324	21.6
50	1000	1366.2	91.08
51	860	668.55	44.57
52	970	778.05	51.87
53	360	438.75	29.25

For inspection purposes only. Consent of copyright owner is required for any other use.

54	200	404.55	26.97
55	100	235.2	15.68
56	300	921	61.4
57	500	502.5	33.5
58	0	228.15	15.21
59	1500	1242.15	82.81
60	1580	1569.9	104.66
61	1000	1473.3	98.22
62	0	0	0
63	240	332.55	22.17
64	170	139.65	9.31
65	490	445.7	23.18
66	1400	1360.35	90.69
67	1040	799.8	53.32
68	455	843	56.2
69	720	596.75	29.63
70	600	1255.8	83.72
71	400	823.5	54.9
72	300	552.15	36.81
73	225	262.5	17.5
74	260	1286.85	85.79
75	500	1047	69.8
76	370	319.95	21.33
77	60	103.5	6.9
78	310	325.2	21.68
79	840	759	50.6
80	25	742.95	49.53
81	700	518.25	34.55
82	500	608.25	40.55
83	770	975.45	65.03
84	470	861.6	57.44
85	740	547.25	21.89
86	350	469.65	22.71
87	1200	630.6	42.04
88	450	350.55	23.37
89	560	274.35	18.29
90	0	0	0
91	1000	614.25	40.95
92	325	386.4	25.76
93	453	276.45	18.43
94	420	1130.6	35.84
95	1050	1207.65	80.51
97	284	816.75	54.45
98	700	425.55	28.37
99	0	0	0
100	240	537.75	35.85
TOTALS	58850	69213.5	4273.42

This report has been prepared and compiled by Michael Sweeney & Associates of N.R.G.E LTD, Mooresfort, Lattin, Co Tipperary, on behalf of Woodville Pig Farms Ltd in respect of the destination of pig manure digestate from its proposed anaerobic digester wherein it is proposed to treat pig manure from its pig breeding unit at Woodville, Ballymackey, Nenagh, Co Tipperary, and its pig fattening unit at Ballyknockane, Ballymackey, Nenagh, Co Tipperary, when mixed with imported organic feedstock materials.

Signed:  Date: 28 June 2010

N.R.G.E. Ltd.
Nutrient Recovery to Generate Electricity Ltd.
Mooresfort, Lattin, Co. Tipperary.
Tel: 062 55385
VAT. No: 6412619V

INDEX OF ATTACHMENTS

- ATTACHMENT No 1: 11B(I) Form
- ATTACHMENT No 2: Composite Map (Scale 1:50,000)
- ATTACHMENT No 3: Individual farm Fertiliser Plans

For inspection purposes only.
Consent of copyright owner required for any other use.

WOODVILLE PIG FARMS LTD
NMP 2010
PIG MANURE DIGESTATE

ATTACHMENT NO. 1

SUMMARY TABLE

*For inspection purposes only.
Consent of copyright owner required for any other use.*

TABLE 11B(i): CUSTOMER LIST & REQUIREMENT OF CUSTOMERS LANDS FOR FERTILISER P, and THE VOLUME OF PIG MANURE TO FILL THAT REQUIREMENT.

Farmers Code	Townlands in which manure may be used	Area ha	No Plots	P kg/yr	Manure m ³ /year
1	Emmel East, Carrick, Clogh Jordan Park	15.09	1 to 13	226.35	155
2	Snugborough, Ballyknockane	34.15	1 to 9	512.25	300
3	Ballinorouan, Bunacum, Clynoe, Cullenswaine, Rath	0	1 to 12	0.00	0
4	Cullenwaine	31.91	1 to 7	478.65	250
5	Stoneyacre, Ballyknockane	14.2	1 to 4	355.00	500
6	Park	37.16	1 to 6	557.40	260
7	Park	0	1 to 7	0.00	0
8	Ballysteena, Barna	17.26	1 to 9	258.90	200
9	Rathmoyle, Newtown	25.46	1 to 4	381.90	440
10	Capple	33.19	1 to 6	497.85	1100
11	Kilruane, Ballyrickard	62.12	1 to 6	931.80	80
12	Coolnamunna	66.91	1 to 8	1192.25	1590
13	Coole	56.57	1,2	848.55	568
15	Cloneen Upper	24.13	1 to 9	361.95	800
16	Ballydonagh	79.57	1 to 6	1193.55	550
17	Corowle, , Clashaniskera, Coolnamunna	0	1 to 13	0.00	0
18	Graigie Lower	0	1,2	0.00	0
19	Kilcona, Killinafinch, Olderry, Oldcourt, Kilkeary	148.27	1 to 25	2224.05	1850
20	Stoneyacre	19.82	1 to 12	297.30	345
21	Grenanstown	0	1 to 7	0.00	0
22	Kylebeg, Milton, Behernagh, Gortaval	252	1 to 14	6300.00	7500
24	Rathenny	78.87	0	1183.05	1450
		0		0.00	0
		0		0.00	0
		0		0.00	0
		0		0.00	0
29	Rathenny	141.32	1 to 14	2431.10	3100
30	Rathenny	47.88	1 to 7	718.20	770
31	Rathenny	91.98	1 to 11	1618.70	1600
32	Knockbrack	14.11	1,2	352.75	420
33	Coolaholliga, Moyroe	54.76	1 to 13	821.40	310
34	Southhill, Carigeen, Rapla South	64.67	1 to 17,	970.05	200
35	Knockanacree, Gortaval	56.6	1 to 8	849.00	1280
36	Carrick, Clonalea	54.7	1 to 17,	820.50	1100
37	Rathenny	0	1,2	0.00	0
38	Clash	0	1 to 3	0.00	0
39	Woodville	0	1 to 3	0.00	0
40	Stoneyacre	19.43		291.45	380
41	Dolla, Bealaclave	44.94	1 to 9	674.10	900

42	Lisgarriff East, Rathnaleen South	57.3	1 to 15	907.50	160
43	Islandwood	72.74	23 to 31b	1091.10	1250
44	Skehanagh, Coolroe, aghnagross, Cangor Demense, Druminduff	118.3	1 to 15	2211.20	830
46	Rathmore, Killeen	140.26		2103.90	900
47	Cangort Park	122	1 to 12	1689.00	130
48	Ballytortan, Rusheen, Kilcomin, Ballytoran	69.84	1 to 11	1082.90	400
49	Falleen	21.6	1 t 3	324.00	195
50	Emmel East, Carrick, CloghJordan Park	91.08	1 t 12	1366.20	1000
51	Ballynakill, Foxborough, , Busherstown	44.57	1 to 7	668.55	860
52	Brownstown, Ballymackey	51.87	1 to 6	778.05	970
53	Brownstown, Ballymackey	29.25	1 to 5	438.75	360
54	CloughJordan	26.97	1 to 5	404.55	200
55	Streamstown	15.68	1 to 3	235.20	100
56	Rathenny	61.4	1 to 8	921.00	300
57	Rathenny	33.5	1 to 4	502.50	500
58	Rathenny	15.21	1 to 3	228.15	0
59	Rathenny	82.81	1 to 11	1242.15	1500
60	Coolderry, Rathnaleen Nth. Grennanestown,	104.66	1 to 14	1569.90	1580
61	Graffan	98.22	1 to 8	1473.30	1000
62			0	0.00	0
63	Lisgan	22.17	1 to 4	332.55	240
64	Moanfin, Lisgarode	9.31	1,2	139.65	170
65	Ballinveny, Rath,	23.18	1 to 3	445.70	490
66	Emmel East, Emmel West, Gorraun,	90.69	1 to 12	1360.35	1400.00
67	Behamore	53.32	1 to 3	799.80	1040.00
68	Kildangan	56.2	1 to 8	843.00	455.00
69	Ballinaclough	29.63	1 to 4	596.75	720.00
70	Behamore	83.72	1 to 14	1255.80	600.00
71	Curraghraigue Lower, Millbrook	54.9	1 to 5	823.50	400.00
72	Ballynakill, Moneygall, island	36.81	1 to 6	552.15	300.00
73	Rathkenny	17.5	0.00	262.50	225.00
74	Knocknacree, Garry, Drum	85.79	1 to 8	1286.85	260.00
75	Ballinakill, Rabbitborro, Woodhill	69.8	1 to 8	1047.00	500.00
76	Moneygall, Armyhill	21.33	1 to 5	319.95	370.00
77	Knockane	6.9	1 to 3	103.50	60.00
78	Lissanisky	21.68	1 to 4	325.20	310.00
79	Summerhill	50.6	1 to 7	759.00	840.00
80	Garraunanearla	49.53	1 to 5	742.95	25.00
81	Bawn	34.55	1 to 4	518.25	700.00
82	Clonteige, Clonolea	40.55	1 to 8	608.25	500.00
83	Glenaguile	65.03	1 to 10	975.45	770.00
84	Poulakerry	57.44	1 to 6	861.60	470.00
85	Emenis	21.89	1 to 4	547.25	740.00
86	Killurane	22.71	1 to 3	469.65	350.00
87	Ballyhogan, Ballyanny Upper	42.04	1 to 4	630.60	1200.00

88	Lisatunny	23.37	1 to 7	350.55	450.00
89	Killowney Little	18.29	1 to 3	274.35	560.00
90		0		0.00	0.00
91	Greenan, Ballyduff, Curraghleigh, Cronavone, Templeberry co. Tipp	40.95	1 to 11	614.25	1000.00
92	Clash, Nenagh Co.Tipp	25.76	1 to 3	386.40	325.00
93	Glenahilty, Middlewalk Cloughjordan Co.Tipp	18.43	1 to 5	276.45	453.00
94	Knockalton, Nenagh Co. Tipperary	35.84	1 to 6	1130.60	420.00
95	Ballyconnor, Nenagh Co. Tipperary	80.51	1 to 14	1207.65	1050.00
97	Crumlin Big, Ballycormick, Coole, Woodlands, Coolkereen, Kiloskehan, Toomevara Co.Tipp.	54.45	1 to 11	816.75	284.00
98	Lahesseragh, Richmond, Nenagh Co.Tipp	28.37	1 to 5	425.55	700.00
99		0		0.00	0.00
100	Glenahilty, Middlewalk Cloughjordan Co.Tipp	35.85	1 to 10	537.75	240.00
TOTALS		4273.42		69213.50	58850

For inspection purposes only.
 Consent of copyright owner required for any other use.

**TIM CULLINANE NMP 2010 SUMMARY N
ORGANIC N LEVELS OF CUSTOMER FARMS 2010**

F.C.	ALLOCATION M3	AVG KGS ORG N/Ha (1)	AVG KGS ORG N/Ha (2)	AREA (Ha)
1	155	169.32	117.96	15.09
2	300	169.43	125.51	34.15
3	0	#DIV/0!	#DIV/0!	0
4	250	169.70	130.52	31.91
5	500	44.31	0.00	14.2
6	260	168.46	133.48	37.16
7	0	#DIV/0!	#DIV/0!	0
8	200	168.31	110.37	17.26
9	440	169.76	83.35	25.46
10	1100	165.71	0.00	33.19
11	80	169.64	163.20	62.12
12	1590	169.93	51.11	66.91
13	568	73.55	23.35	56.57
15	800	165.77	0.00	24.13
16	550	130.20	95.64	79.57
17	0	#DIV/0!	#DIV/0!	0
18	0	#DIV/0!	#DIV/0!	0
19	1850	169.35	106.97	148.27
20	345	169.02	81.99	19.82
21	0	#DIV/0!	#DIV/0!	0
22	7500	148.81	0.00	252
24	1450	168.59	76.67	78.87
25	0	#DIV/0!	#DIV/0!	0
26	0	#DIV/0!	#DIV/0!	0
27	0	#DIV/0!	#DIV/0!	0
28	0	#DIV/0!	#DIV/0!	0
29	3100	168.20	58.52	141.32
30	770	169.01	88.60	47.88
31	1600	169.44	82.46	91.98
32	420	148.83	0.00	14.11
33	310	169.16	140.85	54.76
34	200	149.61	134.14	64.67
35	1280	169.82	56.75	56.6
36	1100	169.73	69.18	54.7
38	0	#DIV/0!	#DIV/0!	0
39	0	#DIV/0!	#DIV/0!	0
40	380	169.12	71.33	19.43
41	900	169.45	69.31	44.94
42	160	169.28	155.32	57.3
43	1250	168.60	82.68	72.74
44	830	169.62	134.54	118.3
46	900	169.25	137.17	140.26
47	130	169.59	164.26	122
48	400	169.56	140.92	69.84
49	195	169.91	124.77	21.6
50	1000	167.45	112.55	91.08
51	860	167.89	71.42	44.57
52	970	168.98	75.48	51.87
53	360	159.49	97.95	29.25
54	200	168.15	131.07	26.97
55	100	85.33	53.44	15.68
56	300	90.21	65.78	61.4
57	500	169.01	94.39	33.5
58	0	170.81	170.81	15.21

59	1500	169.24	78.67	82.81
60	1580	169.51	94.03	104.66
61	1000	90.51	39.60	98.22
62	0	#DIV/0!	#DIV/0!	0
63	240	156.52	102.39	22.17
64	170	168.31	77.01	9.31
65	490	168.68	62.99	23.18
66	1400	168.49	91.30	90.69
67	1040	169.79	72.26	53.32
68	455	168.06	127.58	56.2
69	720	169.42	47.92	29.63
70	600	169.83	169.83	83.72
71	400	169.40	132.97	54.9
72	300	151.97	111.22	36.81
73	225	169.71	105.43	17.5
74	260	92.96	77.81	85.79
75	500	109.60	73.78	69.8
76	370	167.93	81.20	21.33
77	60	167.39	123.91	6.9
78	310	168.45	96.96	21.68
79	840	169.17	86.17	50.6
80	25	169.70	167.17	49.53
81	700	162.37	61.07	34.55
82	500	131.02	69.37	40.55
83	770	136.40	77.20	65.03
84	470	169.48	128.5	57.44
85	740	169.03	0.00	21.89
86	350	169.97	92.91	22.71
87	1200	169.27	26.55	42.04
88	450	169.45	73.17	23.37
89	560	168.67	15.58	18.29
90	0	#DIV/0!	#DIV/0!	0
91	1000	122.10	0.00	40.95
92	325	169.84	106.75	25.76
93	453	122.90	0.00	18.43
94	420	169.14	110.55	35.84
95	1050	169.92	104.71	80.51
97	284	26.08	0.00	54.45
98	700	123.37	0.00	28.37
99	0	#DIV/0!	#DIV/0!	0
100	240	100.84	67.36	35.85
TOTALS	58850			4273.42

NOTE 1: TOTAL KGS ORG N/Ha INCLUDING IMPORTED PIG MANURE

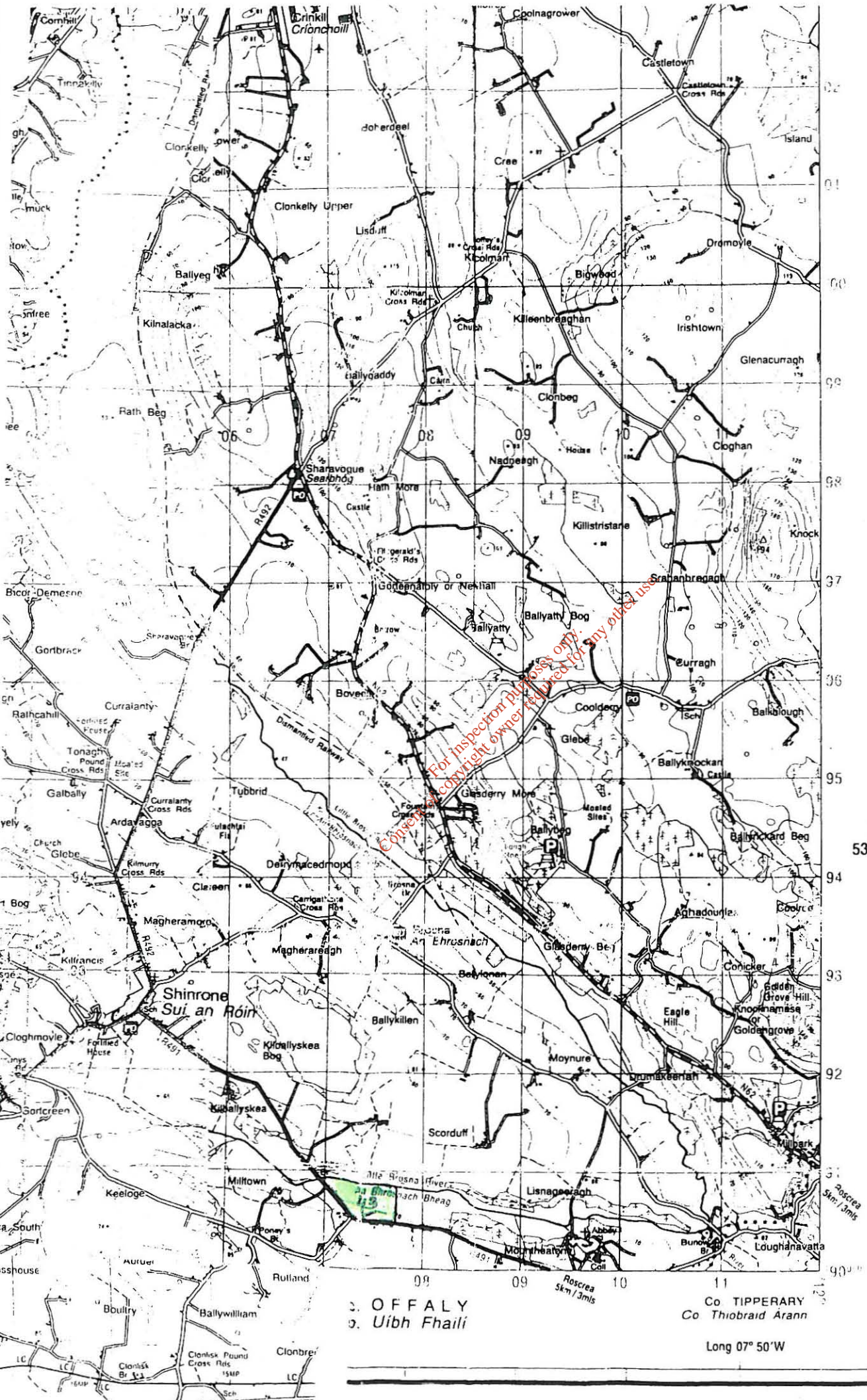
NOTE 2: KGS ORG N/Ha FROM ON FARM STOCK

WOODVILLE PIG FARMS LTD
NMP 2010
PIG MANURE DIGESTATE

ATTACHMENT NO 2

COMPOSITE MAP

*For inspection purposes only.
Consent of copyright owner required for any other use.*



3. OFFALY
3. Uibh Fhaili

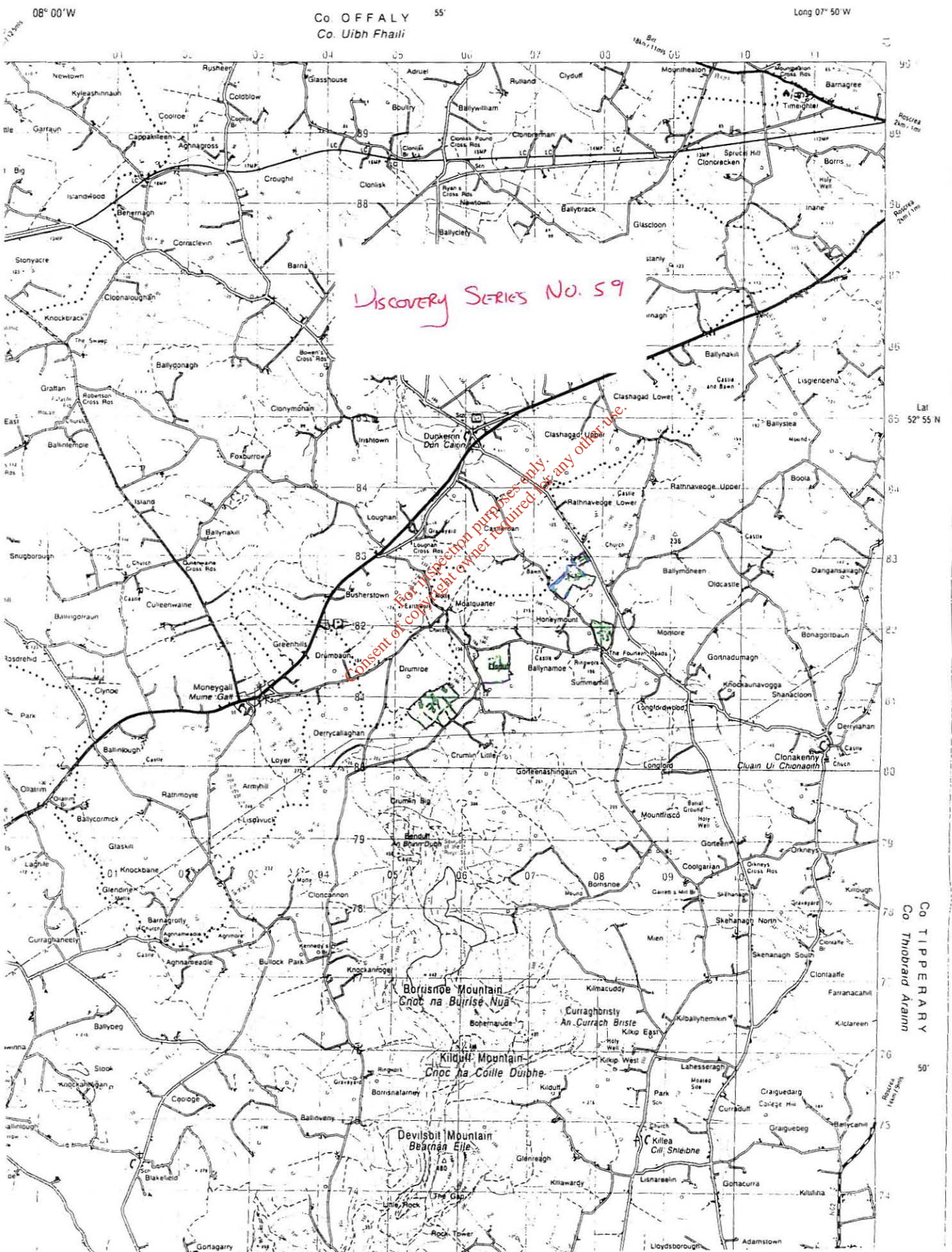
Co TIPPERARY
Co Thiobraid Arann

Long 07° 50' W

Lat
53° 00' N

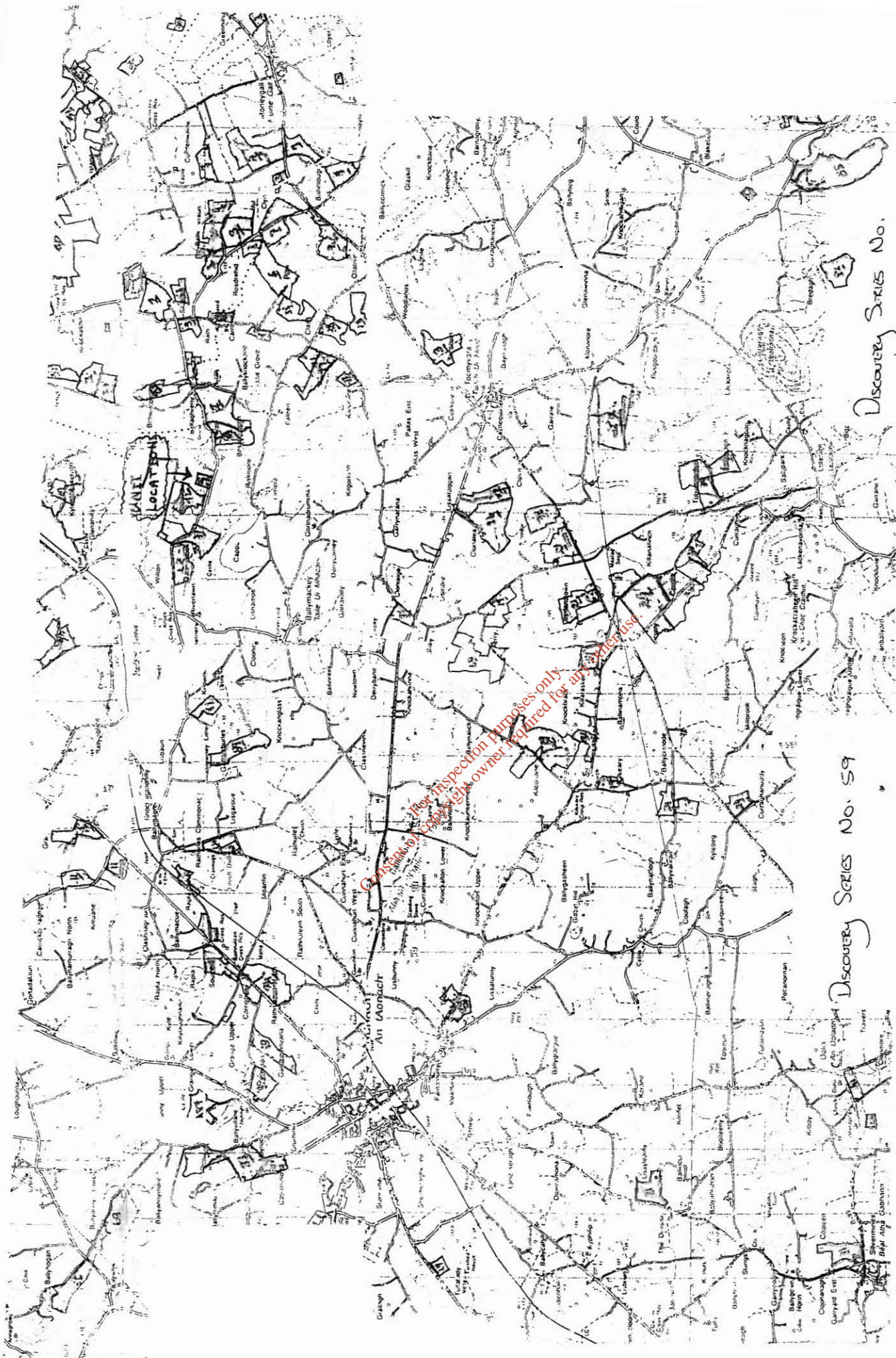
Roscrea
5km / 3mils

DISCOVERY SERIES 59



Discovery Series No. 59

For site-specific purposes only.
Consent of copyright owner required for any other use.

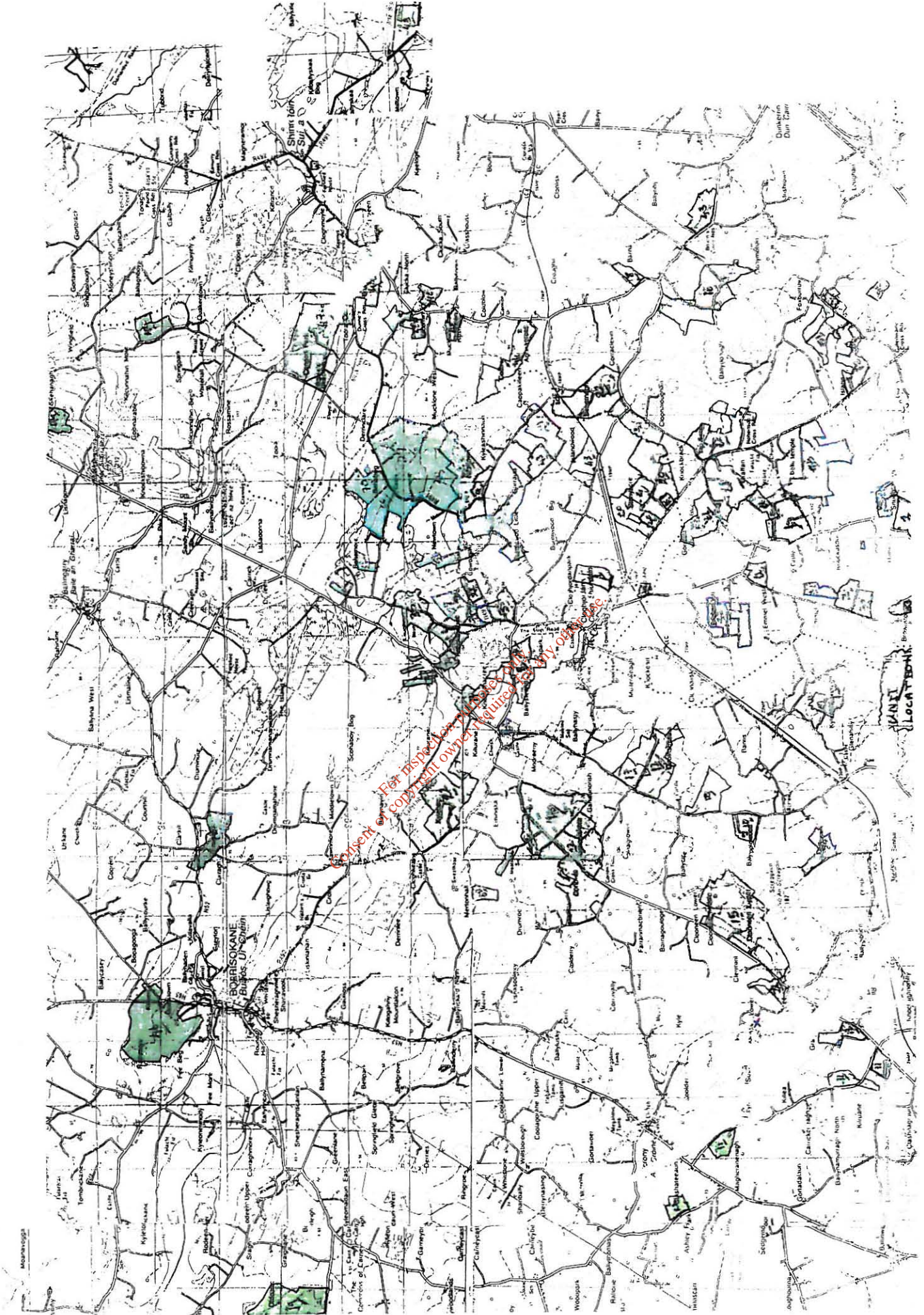


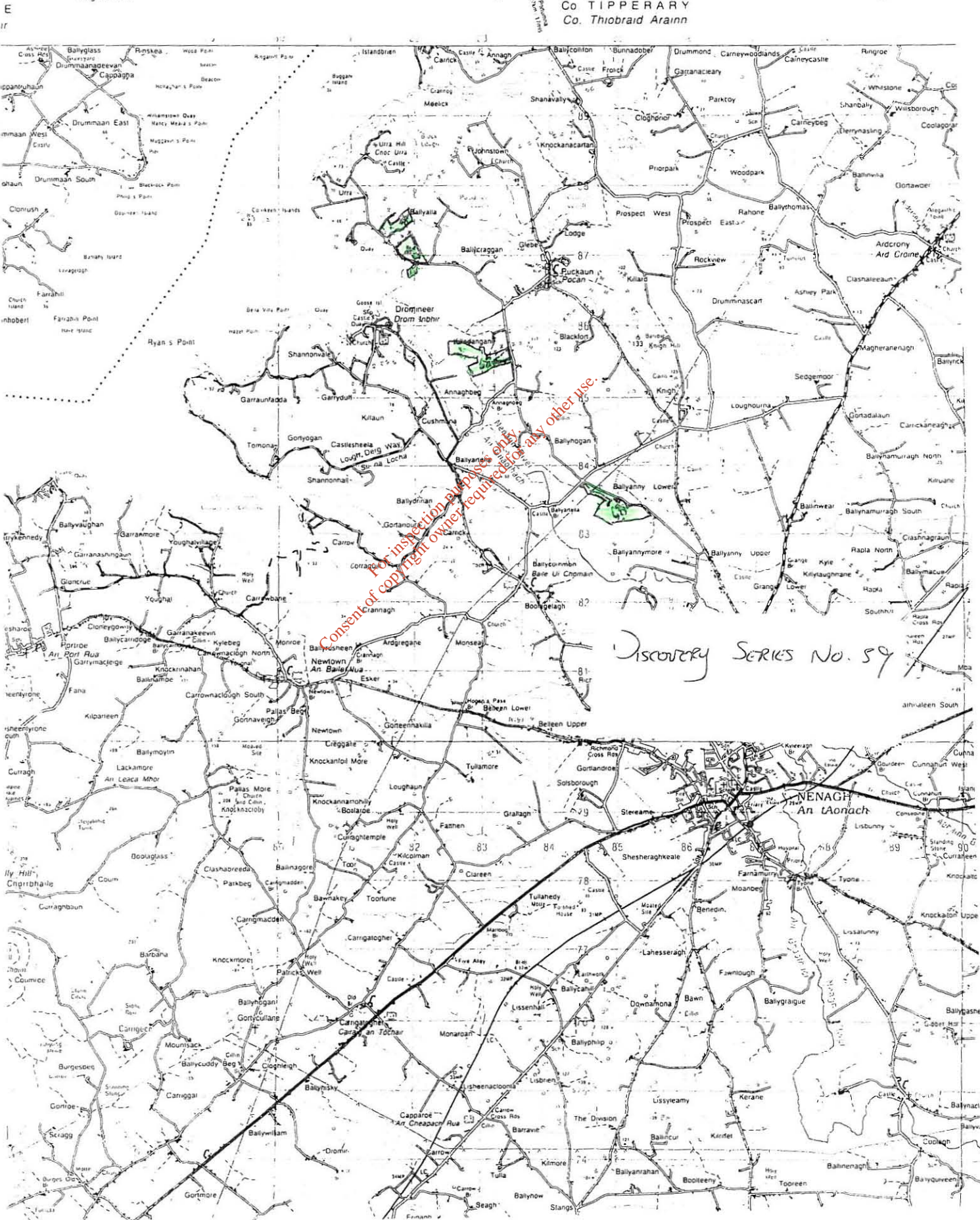
MARKET LOCATIONS

Consent of copyright owner required for any other use.

Discovery Series No. 59

Discovery Series No.





WOODVILLE PIG FARMS LTD
NMP 2010
PIG MANURE DIGESTATE

ATTACHMENT NO 3

INDIVIDUAL
FARM FERTILISER PLANS

*For inspection purposes only.
Consent of copyright owner required for any other use.*

**NRGE LTD
MOORESFORT
LATTIN
CO TIPPERARY**

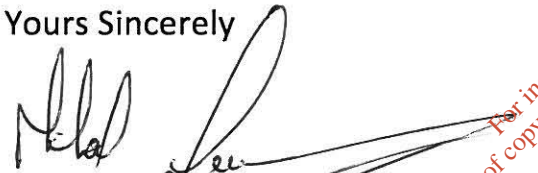
**TEL: 062-55385
FAX: 062-55483
EMAIL: m.sweeney@nrge.ie**

RE: INDIVIDUAL NMP PLANS FOR CUSTOMER FARMS

TO WHOM IT MAY CONCERN

The individual fertilizer plans (Nutrient Management Plans), are maintained on site for inspection during normal working hours, by any relevant authorities.

Yours Sincerely



Michael Sweeney
NRGE Ltd

*For inspection purposes only.
Consent of copyright owner required for any other use.*

N.R.G.E. Ltd.
Nutrient Recovery to Generate Electricity Ltd.
Moosesfort, Lattin, Co. Tipperary.
Tel: 062 55385
VAT. No: 6412619V



MICHAEL SWEENEY
NUTRIENT RECOVERY TO GENERATE ELECTRICITY LTD
MOORESFORT
LATTIN
CO TIPPERARY

TO WHOM IT MAY CONCERN

I have completed Fertilizer Plans for Farm Codes attached, to recover Pig Manure Digestate from Woodville Pig Farm (IPC License Ref P0467-01), during 2010. These Plans comply with the requirements of the European Communities (Good Agricultural Practice for Protection of Waters) Regulations, S.I. No 101 of 2009.

Summary Information of the customer list of farms, whereupon this pig manure digestate is to be recovered, is attached, and a more detailed report is available on site for inspection by any relevant authority. A full copy of this report is attached in folder marked "CONFIDENTIAL".

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 101 of 2009, will not cause, and is not likely to cause, significant environmental pollution.

Signed

MICHAEL SWEENEY
TEAGASC/FBA/FMR MGR
JUNE 2010

N.R.G.E. Ltd.
Nutrient Recovery to Generate Electricity Ltd.
Moosesfort, Lattin, Co. Tipperary.
Tel: 062 55385
VAT. No: 6412619V