Laois County Council

Áras an Chontae,

James Fintan Lalor Ave,

Kylekiproe,

Portlaoise,

Co. Laois, R32 EHP9

Date: 20th of May 2023

To Whom It May Concern:

Re: Mark Rochford, Lower Forest, Mountmellick, Co Laois

Development Of Agricultural Structures Located At Forest, Mountmellick, Co Laois

The enclosed "Farmer Full - Fertiliser Plan 2023" outlines the total quantity of slurry, soiled water, dairy washings and farmyard manure produced on the holding together with the associated storage facilities.

All silage effluent from existing silage bases is piped to existing slatted tank/slurry lagoon adjacent. No additional storage capacity required for silage effluent as all effluent will be land spread prior to the 01st of October annually. The quantity of silage effluent produced during the closed period, 01st of October to the 12th of January, will be negligible. The quantity of soiled water generated from the silage bases is based on a maximum average area of 25 percent been in used during the closed period (the length of the silage base in the fertiliser plan is entered as 25 percent of the total length).

The production of dairy washing and soiled water from the collecting yard is based on all dairy cows been dried off from milk production for a minimum period of 55 days during the closed period. The figures entered for average number of cows and maximum number of cows milked at any time

represents the maximum extent of the production of dairy washing and soiled water during the closed period, with historical figures less than those used in calculations.

It is not anticipated that significant levels of farmyard manure will be produced on the holding. All dairy cows and replacement heifers will have access to slatted tanks for the majority of the winter period. Only calving cows and calves will be housed exclusively on straw beds. This is a spring calving dairy herd with the calving period operating from late January to the end of March. Stock are generally housed from mid-November until the mid-March annually. There will be no requirement to clean out any straw bed houses prior to the 12th of January annually. Bedding material can be allowed to accumulate under stock up to this date. The accumulation of bedding material is based on a maximum build up depth of 0.60m as permitted by the Department of Agriculture under Cross Compliance/Baseline Conditionality rules and Nitrates Regulations. The accumulation of bedding material, if any, will be less than 0.60m deep by the 12th of January. After the 12th of January the applicant may clean out straw bed houses and stockpile the bedding material on the land subject to the conditions outlined in Appendix 1. This is in full compliance with European Communities (Good Agricultural Practice For The Protection of Waters) Regulations 2022, (S.I. No. 113 of 2022)). There is no requirement for a dungstead/manure pit. No used straw bedding material (Farmyard Manure)) may be stored on any concrete yard or hardcore area. If the applicant intends storing said material on concrete, then additional planning permission will be sought for the construction of a manure pit with sufficient storage capacity for all soiled water produced during the closed period (October 01st to January 12th).

Based on historical, current and proposed stocking rates I can confirm that this holding will have sufficient slurry storage capacity for all stock as required under European Communities (Good Agricultural Practice For The Protection of Waters) Regulations 2022, (S.I. No. 113 of 2022)).

I have reviewed the structures, 2 no Cubicle sheds, slurry lagoon and silage pit for which a retention is being sought. I can confirm that all structures are in substantial compliance with the relevant Department of Agriculture, Food and the Marine building specifications, namely;

S101: Minimum Specifications for the structure of Agricultural Buildings - July 2016

S123 Bovine Livestock Units and Reinforced Tanks - October 2022

S120 Concrete Walled Silos - May 2018

S128 Concrete Silage Bases - November 2015

S126 Minimum Specification for Geomembrane-lined Slurry/Effluent Stores, and Ancillary Works - Nov 02

Also enclosed is a certificate from Lining Technology who installed the Geomembrane-lined Slurry/Effluent Store who certify that the excavation and preparation work performed is of the required standard to at least meet the requirements of the Department of Agriculture and Food Specification S126, 'Minimum Specification for Geomembrane-Lined Slurry/Effluent Stores, and Ancillary Works'.

If you have any queries, please call.

Yours faithfully,

Declan Dempsey

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Appendix 1 Extract From S.I. No. 113/2022 - European Union (Good Agricultural Practice for Protection of Waters) Regulations 2022

(13) Where farmyard manure is held in a field prior to land spreading it shall be held in a compact heap and shall not be placed within-

(a) 250m of the abstraction point of any surface waters or borehole, spring or well used for the abstraction of water for human consumption in a water scheme supplying 10m3 or more of water per day or serving 50 or more persons,

(b) 50m of any other borehole, spring or well used for the abstraction of water for human consumption other than a borehole, spring or well specified at paragraph (a),

(c) 20m of a lake shoreline or a turlough likely to flood,

(d) 50m of exposed cavernous or karstified limestone features (such as swallow-holes and collapse features),

(e) 20m of any surface waters (other than a lake or surface waters specified at paragraph (a)). (14) Farmyard manure shall not be held in a field at any time during the periods specified in Schedule 4 as applicable to that substance.

SCHEDULE 4

PERIODS WHEN APPLICATION OF FERTILISERS TO LAND IS PROHIBITED

1. In counties Carlow, Cork, Dublin, Kildare, Kilkenny, Laois, Offaly, Tipperary, Waterford, Wexford and Wicklow, the period during which the application of fertilisers to land is prohibited in the period from—

(a) 15th September to 26th January in the case of the application of chemical fertiliser and not withstanding sub-paragraph (4)

(b) 8th October11 to 12th January in the case of the application of organic fertiliser (other than farmyard manure) and not withstanding sub-paragraph (5)

(c) 1st November to 12th January in the case of the application of farmyard manure.

Farmer Full - Fertiliser Plan 2023 Dempsey Agri

Name	Ger, Bernard & Mark Rochford
Address	LOWER FOREST MOUNTMELLICK
County (Zone)	Laois (K)
Herd No.	K1403065

Dempsey Agri

This report contains the following:

1.)- Cover Page
2.)- Farm Summary of Soil fertility and fertiliser requirements
3.)- Lime Report
4.)- Fertiliser Plan for the farm
5.)- Summary of All Livestock on the holding
6.)- Soil Sample Results
7.)- Manures Produced on Holding and Storage Facilities on Farm
8.)- Summary of Land areas, Cropping and max fertiliser allowances
9.)- Concentrate feed usage on the farm in 2022
10.)- Cereal crop yields where relevant
11.)- Plan Notes – where relevant

Farm & Soil fertility Summary

Fertiliser Plan Summary	Ger, Bernard & Mark Rochford	2023

Herd No.	K1403065
Address	LOWER FOREST MOUNTMELLICK
County (Zone)	Laois
Weeks Storage.	16 Weeks

Land Areas	**Ha**	**%**
Total	420.71	
Grassland	420.71	100
Arable	0	0
Sampled Areas	421.62	100.22

Closed Periods

Slurry	1 October to 12 January
Chemical	15 September to 26 January
FYM	1 November to 12 Janaury

*Derogation Farm – whole farm must be soil tested

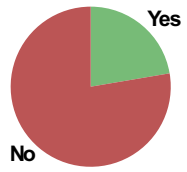
Stocking Rates

Current Years WFSR	229.99 kg/Ha
Current Years GSR	229.99 kg/Ha
Previous Years GSR	219.00 kg/Ha

Soil Fertility Summary

Overall Fertility Status

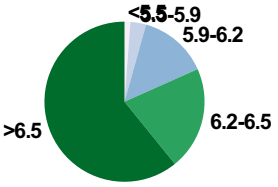
pH > 6.2, P & K index 3 or 4



	Ha's	%
Yes	94.15	22%
No	327.47	78%

Lime

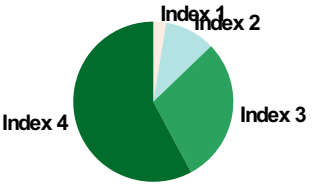
Soil pH > 6.2



pH	Ha's	%
<5.5	4.99	1%
5.5-5.9	13.33	3%
5.9-6.2	58.97	14%
6.2-6.5	87.82	21%
>6.5	256.51	61%

Phosphorus

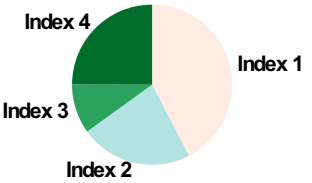
P Index



Index	Ha's	%
1	10.96	3%
2	43.08	10%
3	123.79	29%
4	243.79	58%

Potassium

K Index



Index	Ha's	%
1	178.66	42%
2	95.65	23%
3	42.23	10%
4	105.08	25%

%reduction in farm capacity to perform based on current fertility levels compared to optimal fertility

pH, P and K	pH	P	K
14	4	2	9

Soil pH & Lime

Lime Planned

2023	318 Tonnes
2024	0 Tonnes
2025	25 Tonnes
2026	0 Tonnes

Target pH	**Grass**	**Tillage**
Mineral Soil	6.3	6.5
Organic Soil	5.5	5.5

Organic Manure Plan

Chemical Fertiliser Advice

Nutrient Balance

	N(kg)	P(kg)	K(kg)
Chemical Recommended	94,660	326 (100%)	18,020
Max Chemical Allowed	94,660	3,011	
Chemical Usage	86,879	1,833	0

Planned Fertilisers

Fertiliser	Tonnes
CAN(27%N)	321.78
16% Super P	11.45

Lime Requirements

Plot Name	Crop	Area (Ha)	Soil Sample Id	Soil Sample pH	Lime Req (T/Ha)	Advised Lime 2023 (T/Ha)	2024 (T/Ha)	2025 (T/Ha)	2026 (T/Ha)
55b	Grazing	4.99	167	5.4	10.0	5.0	0.0	5.0	0.0
83c (Split b)	Grazing	4.48	165	5.6	7.5	7.5	0.0	0.0	0.0
82c	Grazing	4.75	187	5.7	6.3	6.3	0.0	0.0	0.0
15e	Grazing	4.10	179	5.7	6.3	6.3	0.0	0.0	0.0
13	Grazing	1.41	178	5.9	3.8	3.8	0.0	0.0	0.0
14	Grazing	1.78	178	5.9	3.8	3.8	0.0	0.0	0.0
90	Grazing	4.61	140	5.9	3.8	3.8	0.0	0.0	0.0
12a	Grazing	0.47	178	5.9	3.8	3.8	0.0	0.0	0.0
12b	Grazing	1.01	178	5.9	3.8	3.8	0.0	0.0	0.0
109	2 Cut + Grazing	1.71	111	6.4	3.8	3.8	0.0	0.0	0.0
112	2 Cut + Grazing	1.11	111	6.4	3.8	3.8	0.0	0.0	0.0
85b	Grazing	4.39	166	5.9	3.8	3.8	0.0	0.0	0.0
22	Grazing	4.13	175	6.0	2.5	2.5	0.0	0.0	0.0
34	Grazing	2.00	168	6.1	2.5	2.5	0.0	0.0	0.0
23	Grazing	0.11	175	6.0	2.5	2.5	0.0	0.0	0.0
51	Grazing	3.38	184	6.1	2.5	2.5	0.0	0.0	0.0
27	Grazing	3.67	173	6.0	2.5	2.5	0.0	0.0	0.0
28	Grazing	1.19	173	6.0	2.5	2.5	0.0	0.0	0.0
29	Grazing	2.15	168	6.1	2.5	2.5	0.0	0.0	0.0
76	Grazing	4.08	193	6.1	2.5	2.5	0.0	0.0	0.0
91	Grazing	2.95	141	6.1	2.5	2.5	0.0	0.0	0.0
96	Grazing	3.90	144	6.1	2.5	2.5	0.0	0.0	0.0
15d	Grazing	4.28	182	6.1	2.5	2.5	0.0	0.0	0.0
52a	Grazing	1.34	184	6.1	2.5	2.5	0.0	0.0	0.0
62b	Grazing	1.96	141	6.1	2.5	2.5	0.0	0.0	0.0
57b	Grazing	4.63	159	6.0	2.5	2.5	0.0	0.0	0.0
93ba	1 Cut + Grazing	0.55	144	6.1	2.5	2.5	0.0	0.0	0.0
11	Grazing	1.71	180	6.2	1.3	1.3	0.0	0.0	0.0
58	Grazing	0.07	139	6.2	1.3	1.3	0.0	0.0	0.0
59	Grazing	0.05	139	6.2	1.3	1.3	0.0	0.0	0.0
18	Grazing	3.27	176	6.2	1.3	1.3	0.0	0.0	0.0
19	Grazing	0.31	176	6.2	1.3	1.3	0.0	0.0	0.0
38	Grazing	2.23	106	6.0	1.3	1.3	0.0	0.0	0.0
40	Grazing	2.75	106	6.0	1.3	1.3	0.0	0.0	0.0
36c	Grazing	0.31	163	6.2	1.3	1.3	0.0	0.0	0.0
				Annual Totals (tons)		318	0	25	0

36b	Grazing	3.68	163	6.2	1.3	1.3	0.0	0.0	0.0
63b	Grazing	4.00	158	6.2	1.3	1.3	0.0	0.0	0.0
87	Grazing	2.72	139	6.2	1.3	1.3	0.0	0.0	0.0
15b	Grazing	3.21	180	6.2	1.3	1.3	0.0	0.0	0.0
80b	Grazing	4.53	192	6.2	1.3	1.3	0.0	0.0	0.0
61a	Grazing	0.95	158	6.2	1.3	1.3	0.0	0.0	0.0
62a	Grazing	1.33	139	6.2	1.3	1.3	0.0	0.0	0.0
				Annual Totals (tons)		318	0	25	0

Fertiliser plan for the Farm

Manure Allocations

Fertiliser	Estimated T	Applied T	Balance T
Cattle Slurry	7,194	8,631	0
Farmyard Manure	276	0	276
Total P in Manures (Grazing + Non-Grazing 4,314.0)			**4,314**

Planned Fertilisers

Fertiliser	Tonnes
CAN(27%N)	321.78
16% Super P	11.45

Nutrient Balance

	N(kg)	P(kg)	K(kg)
Chemical Recommended	94,660	326 (100%)	18,020
Max Chemical Allowed	94,660	3,011	
Chemical Usage	86,879	1,833	0

Plot	Crop	Area(Ha)	Soil Sample	Index N | P | K	Nutrients Applied (Kg/Ha) N | P | K	Nutrients Advice (Kg/Ha) N | P | K	Organic Manures Cattle Slurry (M3/Ha)	Chemical Fertilisers CAN(27%N) (Kg/Ha)	Chemical Fertilisers 16% Super P (Kg/Ha)
1	Grazing	4.82	116	1 | 4 | 1	230 | 0 | 0	250 | 0 | 100	0.0	850.0	0.0
10	Grazing	1.70	108	1 | 4 | 2	230 | 0 | 0	250 | 0 | 70	0.0	850.0	0.0
100	2 Cut + Grazing	4.80	112	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
101	2 Cut + Grazing	2.55	84	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
102	2 Cut + Grazing	5.00	117	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
103	2 Cut + Grazing	4.30	134	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
104	2 Cut + Grazing	4.20	135	1 | 1 | 1	239 | 60 | 280	260 | 66 | 245	80.0	600.0	250.0
105	2 Cut + Grazing	3.36	118	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
106	2 Cut + Grazing	4.10	133	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
107	2 Cut + Grazing	4.66	121	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
108	2 Cut + Grazing	4.73	122	1 | 4 | 2	243 | 0 | 0	260 | 0 | 200	0.0	900.0	0.0
109	2 Cut + Grazing	1.71	111	1 | 4 | 2	243 | 0 | 0	260 | 0 | 200	0.0	900.0	0.0
11	Grazing	1.71	180	1 | 4 | 3	216 | 0 | 0	250 | 0 | 40	0.0	800.0	0.0
110	2 Cut + Grazing	1.63	118	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
111	2 Cut + Grazing	4.61	119	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0

112	2 Cut + Grazing	1.11	111	1 | 4 | 2	243 | 0 | 0	260 | 0 | 200	0.0	900.0	0.0
113	2 Cut + Grazing	4.71	120	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
114	2 Cut + Grazing	2.81	125	1 | 2 | 1	239 | 52 | 280	260 | 56 | 245	80.0	600.0	200.0
115	2 Cut + Grazing	4.64	123	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
116	2 Cut + Grazing	3.54	90	1 | 1 | 1	239 | 65 | 280	260 | 66 | 245	80.0	600.0	280.0
118	1 Cut + Grazing	3.10	124	1 | 4 | 1	243 | 0 | 0	260 | 0 | 175	0.0	900.0	0.0
119	2 Cut + Grazing	2.70	91	1 | 2 | 1	239 | 55 | 280	260 | 56 | 245	80.0	600.0	220.0
120	2 Cut + Grazing	4.08	126	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
121	2 Cut + Grazing	4.18	92	1 | 2 | 1	239 | 55 | 280	260 | 56 | 245	80.0	600.0	220.0
122	2 Cut + Grazing	3.22	132	1 | 1 | 1	239 | 65 | 280	260 | 66 | 245	80.0	600.0	280.0
123	2 Cut + Grazing	3.36	131	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
124	2 Cut + Grazing	3.41	130	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
125	2 Cut + Grazing	1.38	130	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
126	2 Cut + Grazing	2.43	107	1 | 3 | 2	255 | 44 | 193	260 | 46 | 200	55.0	750.0	100.0
127	2 Cut + Grazing	1.51	107	1 | 3 | 2	255 | 44 | 193	260 | 46 | 200	55.0	750.0	100.0
128	2 Cut + Grazing	4.76	129	1 | 3 | 1	255 | 44 | 193	260 | 46 | 245	55.0	750.0	100.0
129	2 Cut + Grazing	4.69	128	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
12a	Grazing	0.47	178	1 | 4 | 4	237 | 0 | 0	250 | 0 | 0	0.0	876.0	0.0
12b	Grazing	1.01	178	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
13	Grazing	1.41	178	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
130	2 Cut + Grazing	2.18	155	1 | 4 | 4	0 | 0 | 0	260 | 0 | 0	0.0	0.0	0.0
14	Grazing	1.78	178	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
140	2 Cut + Grazing	3.52	110	1 | 3 | 2	255 | 44 | 193	260 | 46 | 200	55.0	750.0	100.0
141	2 Cut + Grazing	4.56	127	1 | 4 | 1	243 | 0 | 0	260 | 0 | 245	0.0	900.0	0.0
15a	Grazing	2.57	181	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0

15b	Grazing	3.21	180	1 | 4 | 3	236 0 0	250 0 40	0.0	875.0	0.0
15c	Grazing	2.05	181	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
15d	Grazing	4.28	182	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
15e	Grazing	4.10	179	1 | 3 | 2	191 15 105	250 16 70	30.0	600.0	0.0
16	Grazing	4.08	177	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
18	Grazing	3.27	176	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
19	Grazing	0.31	176	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
20	Grazing	1.93	174	1 | 4 | 2	236 0 0	250 0 70	0.0	875.0	0.0
22	Grazing	4.13	175	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
23	Grazing	0.11	175	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
24a	Grazing	0.96	171	1 | 4 | 2	236 0 0	250 0 70	0.0	875.0	0.0
24b	Grazing	4.73	172	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
27	Grazing	3.67	173	1 | 4 | 2	236 0 0	250 0 70	0.0	875.0	0.0
28	Grazing	1.19	173	1 | 4 | 2	236 0 0	250 0 70	0.0	875.0	0.0
29	Grazing	2.15	168	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
3	Grazing	0.59	115	1 | 3 | 1	191 15 105	250 16 100	30.0	600.0	0.0
30	Grazing	2.12	174	1 | 4 | 2	236 0 0	250 0 70	0.0	875.0	0.0
31	Grazing	3.22	171	1 | 4 | 2	236 0 0	250 0 70	0.0	875.0	0.0
32a	Grazing	4.17	104	1 | 3 | 2	177 15 105	250 16 70	30.0	550.0	0.0
32b	Grazing	4.37	103	1 | 4 | 3	236 0 0	250 0 40	0.0	875.0	0.0
33a	Grazing	4.83	169	1 | 4 | 3	236 0 0	250 0 40	0.0	875.0	0.0
33b	Grazing	2.78	170	1 | 4 | 2	236 0 0	250 0 70	0.0	875.0	0.0
33c	Grazing	4.02	105	1 | 2 | 2	239 25 280	250 26 70	80.0	600.0	30.0
34	Grazing	2.00	168	1 | 4 | 4	236 0 0	250 0 0	0.0	875.0	0.0
35	Grazing	4.32	102	1 | 4 | 3	197 0 0	250 0 40	0.0	730.0	0.0

36a	Grazing	3.95	101	1 | 3 | 2	191 | 15 | 105	250 | 16 | 70	30.0	600.0	0.0
36b	Grazing	3.68	163	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
36c	Grazing	0.31	163	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
37a	Grazing	1.67	164	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
37b	Grazing	4.91	99	1 | 3 | 1	191 | 15 | 105	250 | 16 | 100	30.0	600.0	0.0
38	Grazing	2.23	106	1 | 3 | 2	191 | 15 | 105	250 | 16 | 70	30.0	600.0	0.0
40	Grazing	2.75	106	1 | 3 | 2	177 | 15 | 105	250 | 16 | 70	30.0	550.0	0.0
41	Grazing	2.10	160	1 | 4 | 4	221 | 0 | 0	250 | 0 | 0	0.0	820.0	0.0
42	Grazing	2.80	160	1 | 4 | 4	221 | 0 | 0	250 | 0 | 0	0.0	820.0	0.0
43a	Grazing	3.22	164	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
43b	Grazing	4.52	98	1 | 2 | 1	239 | 25 | 280	250 | 26 | 100	80.0	600.0	30.0
44	Grazing	2.35	154	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
45	Grazing	1.67	154	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
46	Grazing	2.36	153	1 | 4 | 3	236 | 0 | 0	250 | 0 | 40	0.0	875.0	0.0
47a	Grazing	0.90	154	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
47b	Grazing	5.00	151	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
48	Grazing	4.62	152	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
49a	Grazing	0.95	150	1 | 2 | 2	239 | 26 | 280	250 | 26 | 70	80.0	600.0	35.0
49b	Grazing	1.74	153	1 | 4 | 3	236 | 0 | 0	250 | 0 | 40	0.0	875.0	0.0
5	Grazing	2.21	115	1 | 3 | 1	191 | 15 | 105	250 | 16 | 100	30.0	600.0	0.0
50	Grazing	2.67	150	1 | 2 | 2	239 | 26 | 280	250 | 26 | 70	80.0	600.0	35.0
51	Grazing	3.38	184	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
52a	Grazing	1.34	184	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
52b	Grazing	2.06	186	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
53a	Grazing	1.36	186	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0

53b	Grazing	1.70	183	1 | 3 | 3	191 | 15 | 105	250 | 16 | 40	30.0	600.0	0.0
54	Grazing	2.90	183	1 | 3 | 3	191 | 15 | 105	250 | 16 | 40	30.0	600.0	0.0
55a	Grazing	0.36	162	1 | 4 | 3	236 | 0 | 0	250 | 0 | 40	0.0	875.0	0.0
55b	Grazing	4.99	167	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
56	Grazing	1.90	162	1 | 4 | 3	236 | 0 | 0	250 | 0 | 40	0.0	875.0	0.0
57a	Grazing	2.22	161	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
57b	Grazing	4.63	159	1 | 4 | 2	236 | 0 | 0	250 | 0 | 70	0.0	875.0	0.0
58	Grazing	0.07	139	1 | 3 | 1	177 | 15 | 105	250 | 16 | 100	30.0	550.0	0.0
59	Grazing	0.05	139	1 | 3 | 1	177 | 15 | 105	250 | 16 | 100	30.0	550.0	0.0
6	Grazing	0.98	115	1 | 3 | 1	191 | 15 | 105	250 | 16 | 100	30.0	600.0	0.0
60	Grazing	0.10	87	1 | 2 | 1	236 | 26 | 280	250 | 26 | 100	80.0	590.0	35.0
61a	Grazing	0.95	158	1 | 3 | 2	191 | 15 | 105	250 | 16 | 70	30.0	600.0	0.0
61b	Grazing	2.06	87	1 | 2 | 1	192 | 24 | 158	250 | 26 | 100	45.0	550.0	80.0
62a	Grazing	1.33	139	1 | 3 | 1	191 | 15 | 105	250 | 16 | 100	30.0	600.0	0.0
62b	Grazing	1.96	141	1 | 2 | 1	178 | 24 | 158	250 | 26 | 100	45.0	500.0	80.0
63a	Grazing	2.75	87	1 | 2 | 1	192 | 24 | 158	250 | 26 | 100	45.0	550.0	80.0
63b	Grazing	4.00	158	1 | 3 | 2	191 | 15 | 105	250 | 16 | 70	30.0	600.0	0.0
64	Grazing	3.64	157	1 | 4 | 3	221 | 0 | 0	250 | 0 | 40	0.0	820.0	0.0
65	Grazing	1.47	155	1 | 4 | 4	221 | 0 | 0	250 | 0 | 0	0.0	820.0	0.0
7	Grazing	3.62	114	1 | 2 | 1	205 | 24 | 158	250 | 26 | 100	45.0	600.0	80.0
75	Grazing	1.79	191	1 | 4 | 1	236 | 0 | 0	250 | 0 | 100	0.0	875.0	0.0
76	Grazing	4.08	193	1 | 4 | 1	197 | 0 | 0	250 | 0 | 100	0.0	730.0	0.0
77	Grazing	4.30	148	1 | 4 | 3	236 | 0 | 0	250 | 0 | 40	0.0	875.0	0.0
78a	Grazing	0.59	191	1 | 4 | 1	236 | 0 | 0	250 | 0 | 100	0.0	875.0	0.0
78b	Grazing	4.91	194	1 | 4 | 1	236 | 0 | 0	250 | 0 | 100	0.0	875.0	0.0

79	Grazing	2.79	137	1 | 2 | 1	200 | 26 | 140	250 | 26 | 100	40.0	600.0	100.0
80a	Grazing	4.63	145	1 | 4 | 1	203 | 0 | 0	250 | 0 | 100	0.0	750.0	0.0
80b	Grazing	4.53	192	1 | 4 | 2	236 | 0 | 0	250 | 0 | 70	0.0	875.0	0.0
80c	Grazing	2.53	191	1 | 4 | 1	236 | 0 | 0	250 | 0 | 100	0.0	875.0	0.0
81a	Grazing	1.58	188	1 | 3 | 4	191 | 15 | 105	250 | 16 | 0	30.0	600.0	0.0
81b	Grazing	4.20	190	1 | 4 | 1	236 | 0 | 0	250 | 0 | 100	0.0	875.0	0.0
82a	Grazing	0.98	188	1 | 3 | 4	191 | 15 | 105	250 | 16 | 0	30.0	600.0	0.0
82b	Grazing	2.36	188	1 | 3 | 4	191 | 15 | 105	250 | 16 | 0	30.0	600.0	0.0
82c	Grazing	4.75	187	1 | 3 | 4	191 | 15 | 105	250 | 16 | 0	30.0	600.0	0.0
82d	Grazing	4.89	189	1 | 3 | 3	191 | 15 | 105	250 | 16 | 40	30.0	600.0	0.0
83a	Grazing	3.18	146	1 | 3 | 2	191 | 15 | 105	250 | 16 | 70	30.0	600.0	0.0
83b	Grazing	2.18	147	1 | 3 | 1	191 | 15 | 105	250 | 16 | 100	30.0	600.0	0.0
83c (Split b)	Grazing	4.48	165	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
85a	Grazing	5.00	136	1 | 2 | 1	200 | 23 | 140	250 | 26 | 100	40.0	600.0	80.0
85b	Grazing	4.39	166	1 | 4 | 4	236 | 0 | 0	250 | 0 | 0	0.0	875.0	0.0
86	Grazing	3.19	138	1 | 4 | 1	236 | 0 | 0	250 | 0 | 100	0.0	875.0	0.0
87	Grazing	2.72	139	1 | 3 | 1	191 | 15 | 105	250 | 16 | 100	30.0	600.0	0.0
90	Grazing	4.61	140	1 | 4 | 1	236 | 0 | 0	250 | 0 | 100	0.0	875.0	0.0
91	Grazing	2.95	141	1 | 2 | 1	200 | 23 | 140	250 | 26 | 100	40.0	600.0	80.0
92	Grazing	4.08	142	1 | 3 | 2	218 | 15 | 105	250 | 16 | 70	30.0	700.0	0.0
93a	1 Cut + Grazing	0.75	149	1 | 4 | 2	236 | 0 | 0	260 | 0 | 150	0.0	875.0	0.0
93ba	1 Cut + Grazing	0.55	144	1 | 3 | 2	67 | 35 | 245	260 | 36 | 150	70.0	0.0	0.0
93bb	1 Cut + Grazing	4.87	143	1 | 4 | 4	236 | 0 | 0	260 | 0 | 0	0.0	875.0	0.0
94	Grazing	1.00	149	1 | 4 | 2	236 | 0 | 0	250 | 0 | 70	0.0	875.0	0.0
95	1 Cut + Grazing	3.20	149	1 | 4 | 2	203 | 0 | 0	260 | 0 | 150	0.0	750.0	0.0

96	Grazing	3.90	144	1 | 3 | 2	191 | 15 | 105	250 | 16 | 70	30.0	600.0	0.0
97	2 Cut + Grazing	2.10	100	1 | 3 | 2	256 | 35 | 245	260 | 46 | 200	70.0	700.0	0.0
98	2 Cut + Grazing	3.40	113	1 | 3 | 1	256 | 35 | 245	260 | 46 | 245	70.0	700.0	0.0
99	2 Cut + Grazing	2.43	100	1 | 3 | 2	256 | 35 | 245	260 | 46 | 200	70.0	700.0	0.0
9a	Grazing	2.93	108	1 | 4 | 2	197 | 0 | 0	250 | 0 | 70	0.0	730.0	0.0
9b	Grazing	3.86	109	1 | 3 | 1	191 | 15 | 105	250 | 16 | 100	30.0	600.0	0.0

Summary of All Livestock on the holding

Total Nitrogen and Phosphate produced

Animal	No. Animals	N/head	N Total	P /head	P Total
Cattle (1-2 year old)	280	57.0	15,960.0	8.0	2,240.0
Cattle (0-1 year old)	300	24.0	7,200.0	3.0	900.0
Dairy cow 92kg N/hd (4,500 - 6,500kgs)	800	92.0	73,600.0	13.6	10,880.0
		Total N	96760	Total P	14020

Animal Breakdown

Animal Category	N Total	P Total
Grazing	96760	14020
Non-Grazing	0	0

Projected Exports

Manure Type	Date of Export	Quantity (t)	Total N (kg)	Total P (kg)
No data available in table				

Projected Imports

Manure Type	Date of Import	Quantity (t)	Total N (kg)	Total P (kg)
No data available in table				

Total Nitrogen &Phosphorus to be applied on the holding (kg)

N Total Value	P Total Value
96,760.0	14,020.0

Stocking Rates

Whole Farm Stocking Rate Current Year	Grassland Stocking Rate Current Year	Grassland Stocking Rate Previous Year
230	230	219

Soil Samples Results

	Sample Id	Sample Code	Sample Date	Sampled Area (ha)	pH	Lime Req	P Value	K Value	Trace Elements							
									Soil Type	Mg	Cu	ER Mn	Zn	Bo	Co	Tot. Mn
	194	null	28/01/2022	4.9	6.5	0.0	8.5	49.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	193	null	28/01/2022	4.1	6.1	2.5	8.8	40.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	192	null	28/01/2022	4.5	6.2	1.3	11.3	97.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	191	null	28/01/2022	4.9	6.3	0.0	11.3	37.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	190	null	28/01/2022	4.2	6.5	0.0	9.7	31.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	189	null	28/01/2022	4.9	6.6	0.0	5.4	101.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	188	null	28/01/2022	4.9	6.5	0.0	7.9	168.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	187	null	28/01/2022	4.8	5.7	6.3	6.5	221.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	186	null	28/01/2022	3.4	6.4	0.0	8.6	267.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	184	null	28/01/2022	4.7	6.1	2.5	8.3	217.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	183	null	28/01/2022	4.6	6.4	0.0	7.2	137.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	182	null	28/01/2022	4.3	6.1	2.5	11.0	237.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	181	null	28/01/2022	4.6	6.4	0.0	25.7	406.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	180	null	28/01/2022	4.9	6.2	1.3	13.8	244.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	179	null	28/01/2022	4.1	5.7	6.3	5.4	167.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	178	null	28/01/2022	4.7	5.9	3.8	10.2	329.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	177	null	28/01/2022	4.1	6.3	0.0	14.5	347.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	176	null	28/01/2022	3.6	6.2	1.3	21.2	481.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	175	null	28/01/2022	4.2	6.0	2.5	18.4	463.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	174	null	28/01/2022	4.0	6.4	0.0	14.4	164.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	173	null	28/01/2022	4.9	6.0	2.5	14.0	154.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	172	null	28/01/2022	4.7	6.5	0.0	20.5	268.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	171	null	28/01/2022	4.2	6.6	0.0	18.6	125.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	170	null	28/01/2022	2.8	6.6	0.0	20.4	136.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	169	null	28/01/2022	4.8	6.6	0.0	13.2	219.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	168	null	28/01/2022	4.2	6.1	2.5	26.9	578.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	167	null	28/01/2022	5.0	5.4	10.0	19.8	536.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	166		28/01/2022	4.4	5.9	3.8	17.7	437.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	165	null	28/01/2022	4.5	5.6	7.5	21.7	524.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	164		28/01/2022	4.9	6.7	0.0	19.9	226.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	163		28/01/2022	4.0	6.2	1.3	22.5	286.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	162		28/01/2022	2.3	6.3	0.0	10.9	104.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	161		28/01/2022	2.2	6.3	0.0	11.1	161.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	160		28/01/2022	4.9	6.4	0.0	12.3	202.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	159		28/01/2022	4.6	6.0	2.5	8.2	71.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	158		28/01/2022	5.0	6.2	1.3	7.6	88.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	157		28/01/2022	3.6	6.4	0.0	13.9	133.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	155		28/01/2022	3.7	6.5	0.0	16.0	157.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	154		28/01/2022	4.9	6.5	0.0	9.1	204.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	153		28/01/2022	4.1	6.4	0.0	13.0	150.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	152		28/01/2022	4.6	6.7	0.0	15.6	189.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	151		28/01/2022	5.0	6.6	0.0	11.6	173.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	150		28/01/2022	3.6	6.8	0.0	4.9	52.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	149	null	28/01/2022	5.0	6.3	0.0	14.0	134.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	148	null	28/01/2022	4.3	6.6	0.0	11.6	109.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	147	null	28/01/2022	2.2	6.4	0.0	7.8	99.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	146	null	28/01/2022	3.2	6.5	0.0	6.1	127.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	145	null	28/01/2022	4.6	6.6	0.0	9.4	80.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	144		28/01/2022	4.5	6.1	2.5	6.1	76.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	143		28/01/2022	4.9	6.8	0.0	8.9	162.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	142		28/01/2022	4.1	6.7	0.0	6.1	67.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	141		28/01/2022	4.9	6.1	2.5	3.8	30.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	140		28/01/2022	4.6	5.9	3.8	8.4	49.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	139		28/01/2022	4.2	6.2	1.3	7.8	35.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	138		28/01/2022	3.2	6.8	0.0	8.4	50.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	137		28/01/2022	2.8	6.6	0.0	3.4	31.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	136		24/01/2020	5.0	7.1	0.0	3.8	14.6	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	135		24/01/2020	4.2	8.2	0.0	1.6	14.5	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	134	null	24/01/2020	4.3	7.0	0.0	4.1	45.7	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	133	null	24/01/2020	4.1	7.2	0.0	4.7	44.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	132		24/01/2020	3.2	7.3	0.0	1.1	18.1	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	131		24/01/2020	3.4	7.3	0.0	6.2	47.3	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	130		24/01/2020	4.8	6.5	0.0	6.2	44.7	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	129		24/01/2020	4.8	7.1	0.0	5.4	40.3	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	128		24/01/2020	4.7	7.0	0.0	12.3	30.6	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	127	null	24/01/2020	4.6	7.3	0.0	14.9	26.4	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	126	null	24/01/2020	4.1	7.2	0.0	12.1	25.7	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	125	null	24/01/2020	2.8	6.7	0.0	5.0	20.7	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	124	null	24/01/2020	3.1	7.0	0.0	16.6	24.5	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	123	null	24/01/2020	4.6	6.8	0.0	21.1	36.2	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	122		24/01/2020	4.7	6.7	0.0	14.3	89.1	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	121	null	24/01/2020	4.7	6.9	0.0	5.9	30.1	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	120	null	24/01/2020	4.7	7.4	0.0	8.1	64.1	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	119	null	24/01/2020	4.6	6.8	0.0	4.6	45.7	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	118	null	24/01/2020	5.0	6.4	0.0	6.5	34.0	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	117	null	24/01/2020	5.0	6.7	0.0	9.3	24.7	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	116		24/01/2020	4.8	7.7	0.0	9.1	21.1	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	115		24/01/2020	4.2	7.2	0.0	6.3	41.8	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	114		24/01/2020	3.6	7.6	0.0	4.8	21.8	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	113	null	24/01/2020	3.4	8.0	0.0	6.1	22.6	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	112		24/01/2020	4.8	8.0	0.0	43.1	13.7	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	111	null	24/01/2020	2.8	6.4	3.8	11.9	130.6	Peat	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	110	null	24/01/2020	3.5	7.2	0.0	6.4	95.1	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	109		24/01/2020	3.9	7.4	0.0	5.5	31.8	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	108		24/01/2020	4.6	7.7	0.0	13.2	52.3	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	107		24/01/2020	3.9	6.3	0.0	6.5	95.5	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	106		24/01/2020	5.0	6.0	1.3	6.1	85.6	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	105		24/01/2020	4.0	7.1	0.0	4.9	83.7	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	104		24/01/2020	4.2	7.1	0.0	6.9	91.4	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	103		24/01/2020	4.4	6.6	0.0	9.2	135.2	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	102		24/01/2020	4.3	6.8	0.0	12.6	138.4	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	101		24/01/2020	4.0	6.9	0.0	7.2	53.3	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	100	null	24/01/2020	4.5	7.5	0.0	6.0	66.9	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	99		24/01/2020	4.9	7.4	0.0	6.3	47.2	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	98		24/01/2020	4.5	7.7	0.0	4.2	44.1	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	96		24/01/2020	0.5	7.9	0.0	11.1	22.8	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	92	null	24/01/2020	4.2	7.1	0.0	4.8	37.3	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	91	null	24/01/2020	2.7	7.0	0.0	4.0	31.4	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	90		24/01/2020	3.5	7.1	0.0	1.8	19.9	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	87		24/01/2020	4.9	6.8	0.0	4.5	49.9	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	84		24/01/2020	2.5	7.7	0.0	31.8	30.0	Loam	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Manures Produced on Holding and Storage Facilities on Farm

Slurry Produced

From Animals

Animal	No. on Slurry	Weeks slurry produced	Weeks slurry required	Total Slurry Produced (m3)	Storage requirement (m3)
Cattle (18-24 months old)	211	16	16	877.8	877.8
Cattle (6-12 months old)	314	16	16	753.6	753.6
Dairy cow 92kg N/hd (4,500 - 6,500kgs)	700	16	16	3,696.0	3,696.0

Total Slurry Produced	5,327.4	m^3		Gallons
Total Storage Required	5,327.4	m^3		Gallons

From Dirty Yards

Rectangular Areas

Yard	Length (m)	Width (m)	Area (m2)
25	10.8	13.1	141.0
26	10.8	14.3	153.7
27	12.0	16.0	191.9
28	11.6	15.0	173.1

Circular Areas

Yard	Diameter (m)	Area (m2)
No data available in table		

Total Storage Required for Dirty Yards	232.2	m^3		Gallons

From FYM Seepage

Under Animals	0.0	m^3	
From Uncovered FYM Heaps	0.0	m^3	
Total FYM Seepage to be Stored	0.0	m^3	Gallons

From Dairy Washings

Total Storage Required for Dairy Washings to be stored with Slurry	922.7	m^3	Gallons

Slurry Storage

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Covered(Rectangle)	1	3.5	80.5		2.4	619.8
Covered(Rectangle)	2	3.5	21.2		2.0	133.6
Uncovered(Rectangle)	5	10.0	16.6		1.2	91.0
Covered(Rectangle)	7a	2.1	29.0		1.2	60.9
Covered(Rectangle)	7b	3.5	29.0		2.1	193.4
Lagoon(Geo-Membrane)	16	27.3	65.0		4.0	4,869.4
Covered(Rectangle)	17	2.9	15.7		2.1	88.3
Covered(Rectangle)	18	5.8	15.7		2.1	176.7
Covered(Rectangle)	19	2.9	15.7		2.1	88.3
Covered(Rectangle)	22	3.2	27.1		1.8	141.4
Covered(Rectangle)	23	3.2	27.1		1.8	141.8
Covered(Rectangle)	24	4.1	19.8		2.4	182.7
Uncovered(Rectangle)	25	4.1	19.8		2.4	145.9
					Net Capacity	6,933.0

Slurry Storage Balance

Farm Slurry Storage Balance | **Total Slurry to be stored on Farm** | **Volume of Cattle Slurry for Spreading**

Slurry Produced (Animals)	5,327.4 m^3	5,327.4 m^3
Cattle Slurry Imported		0.0 m^3
Cattle Slurry Exported		0.0 m^3
Slurry Produced (Dirty Yards)	232.2 m^3	232.2 m^3
Slurry Produced (FYM Seepage)	0.0 m^3	0.0 m^3
Slurry Produced (Dairy Washings)	922.7 m^3	922.7 m^3
Slurry Produced (Rainfall in open tanks - 16 weeks)		711.8 m^3
Total Slurry Produced	6,482.3 m^3	7,194.0 m^3
	Gallons	Gallons
Dilutes Added to Slurry		1,866.7 m^3
Dilution factor		74.1 %
Total Available Net Storage	6,933.2 m^3	
Surplus Storage Available	450.9 m^3	

Farm Soiled Water Storage Balance

Soiled Water Produced (Dairy Washings)	0.0 m^3	Gallons
Soiled Water Produced (Yards)	0.0 m^3	Gallons
Total Available Net Soiled Water Storage	0.0 m^3	Gallons
Additional Storage Required	0.0 m^3	Gallons

FYM Production

Animal	No. on FYM	Straw Usage	Weeks FYM Production	Weeks FYM Storage	Total FYM Produced (m3)	Total FYM Storage (m3)	Seepage Produced (m3)	Total Straw Usage (kg)
Dairy cow 92kg N/hd (4,500 - 6,500kgs)	32	H	16	16	358.4	358.4	0.0	28,160.0

Total Straw Usage 28,160.0 kg

Seepage Produced	0.0 m^3		
Total FYM Produced	358.4 m^3		tonne
Total FYM Storage	358.4 m^3		

FYM Under Animals

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Covered(Rectangle)	3 (Under Animals)	6.0	12.0		0.6	43.2
Covered(Rectangle)	4 (Under Animals)	6.0	12.0		0.6	43.2
Covered(Rectangle)	8 (Under Animals)	6.0	29.0		0.6	104.4
Covered(Rectangle)	9 (Under Animals)	10.8	14.0		0.6	90.7
Covered(Rectangle)	10 (Under Animals)	6.7	14.0		0.6	56.3
Covered(Rectangle)	12 (Under Animals)	5.2	15.6		0.6	48.7
					Net Capacity	386.0

FYM Storage Balance

Seepage Produced

Under Animals	0.0 m^3	Gallons
From Uncovered FYM Heaps	0.0 m^3	Gallons
Total FYM Seepage to be Stored	0.0 m^3	Gallons

FYM Storage Balance

Total FYM Storage Required	358.4 m^3	
Nutrient Adjustment Factor	45.0 %	

FYM Storage Available

Storage Available Under Animals	386.5	m^3
Storage Available As Covered FYM Stores	0.0	m^3
Storage Available As Uncovered FYM Stores	0.0	m^3
Total FYM Storage Available	386.5	m^3

FYM Storage Balance

Surplus Storage Available	28.1	m^3

Summary of Land areas, Cropping and max fertiliser allowances

	N	P Index 1	P Index 2	P Index 3	P Index 4
Max Grassland Allowance (Previous Year Grassland SR:219 kg/Ha)	225	39	29	19	0

Available N Allowance

Name	Crop Area(Ha)	N Index 1			N Index 2			N Index 3			N Index 4			Total N
		Area(Ha)	N Allowed	Total N	Area(Ha)	N Allowed	Total N	Area(Ha)	N Allowed	Total N	Area(Ha)	N Allowed	Total N	
Grazing	291.87	291.87	225	65,670.8										65,670.8
1 Cut + Grazing	12.47	12.47	225	2,805.8										2,805.8
2 Cut + Grazing	116.37	116.37	225	26,183.3										26,183.3
Non- Farmed Area	1.89	1.82	0	0.0				0.07	0	0.0				0.0
Farmyard and Roads	3.07	1	0	0.0				2.07	0	0.0				0.0
Forestry	0	0	0	0.0										0.0

Available P Allowance

Name	Crop Area(Ha)	P Index 1			P Index 2			P Index 3			P Index 4			Total P
		Area(Ha)	P Allowed	Total P	Area(Ha)	P Allowed	Total P	Area(Ha)	P Allowed	Total P	Area(Ha)	P Allowed	Total P	
Grazing	291.87				33.39	29	968.3	71.37	19	1,356.0	187.11	0	0.0	2,324.3
1 Cut + Grazing	12.47							0.55	19	10.5	11.92	0	0.0	10.5
2 Cut + Grazing	116.37	10.96	39	427.4	9.69	29	281.0	50.96	19	968.2	44.76	0	0.0	1,676.7
Non- Farmed Area	1.89							0.46	0	0.0	1.43	0	0.0	0.0
Farmyard and Roads	3.07							0.45	0	0.0	2.62	0	0.0	0.0
Forestry	0										0	0	0.0	0.0

N allowance	(Kgs)
Maximum total available N	94,659.8
- Available N produced on holding (0 from Grazing from 2018)	0.0
- Available N in manures Imported	0.0
+ Available N in manures Exported (Max 11,909.0)	0.0
Maximum Chemical N fertiliser allowed	**94,659.8**

P allowance	(Kgs)
Maximum total available P	4,011.5
- Total P in Manures produced on holding (0 from Grazing from 2018)	0.0
+ Manure P not available (Applied to index 1 & 2)	882.5
- Total P in manures Imported	0.0
+ Total P in manures Exported (Max 4,314.0)	0.0
Total P in Concentrate Feeds Used	3,386.2
Discounted P in feeds (up to 300kg)	1,503.5
- Net P in concentrate feeds used	1,882.7
Maximum Chemical P fertiliser allowed	**3,011.2**

Concentrate Feeds

Straight Feed Accounting Method	Book Value
Compound Feed Accounting Method	Default(5kg)

Last years total organic N	92,212	kg
Total P Fed to Grazing Livestock	3,386.2	kg
Total P to be discounted	1,503.5	kg
Net P contributing to Available Allowance	1,882.7	kg

Name	Quantity (t)	P Content Data Source	P Content	Total P (kg)
Glanbia	15.6	Default(5kg)	5.0	78.1
Grennans	502.0	Default(5kg)	5.0	2,510.0
Liffey Mills	159.6	Default(5kg)	5.0	798.2
	677.2			

Cereal crop yields

Crop

Plan Notes

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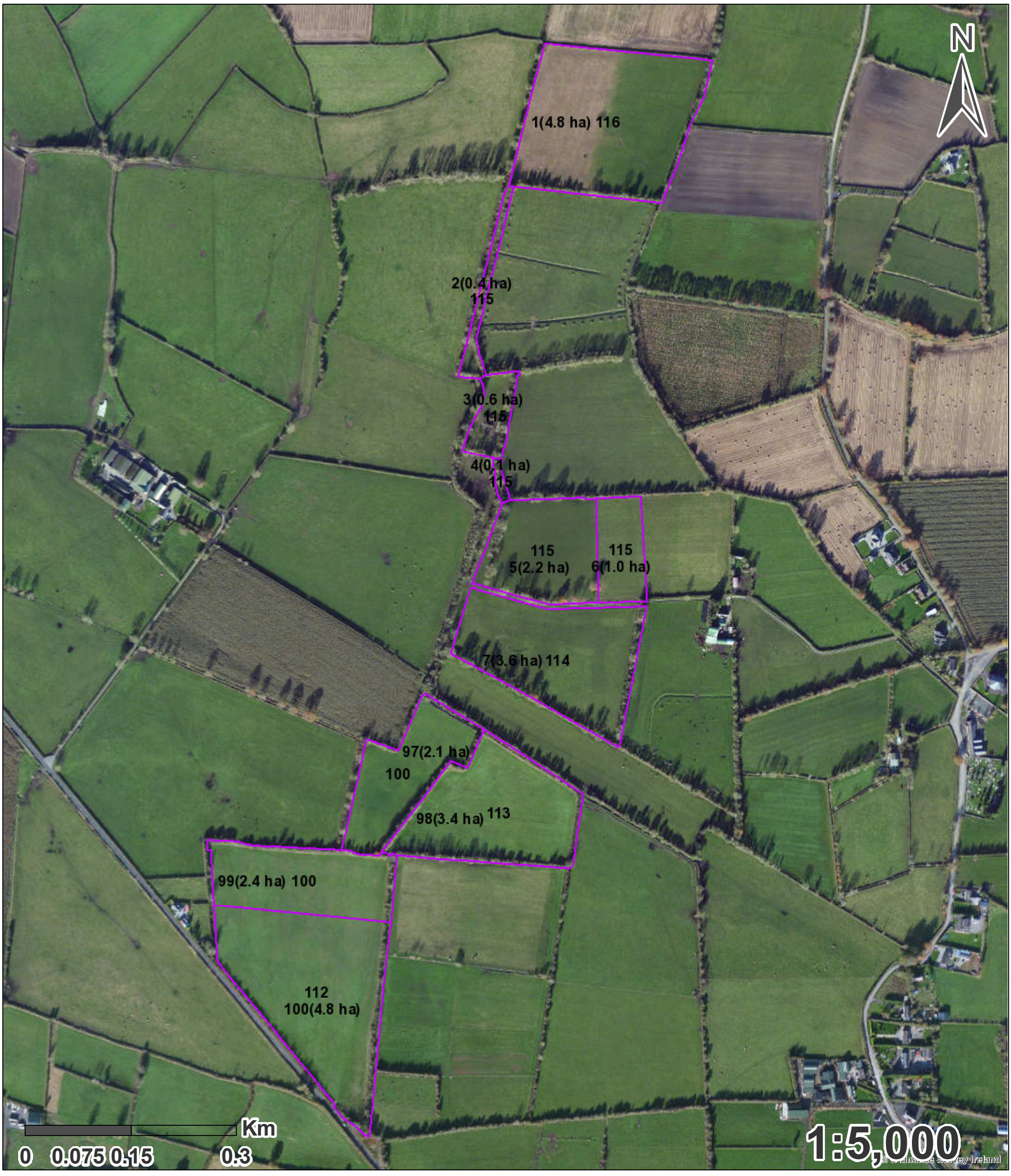

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Plots

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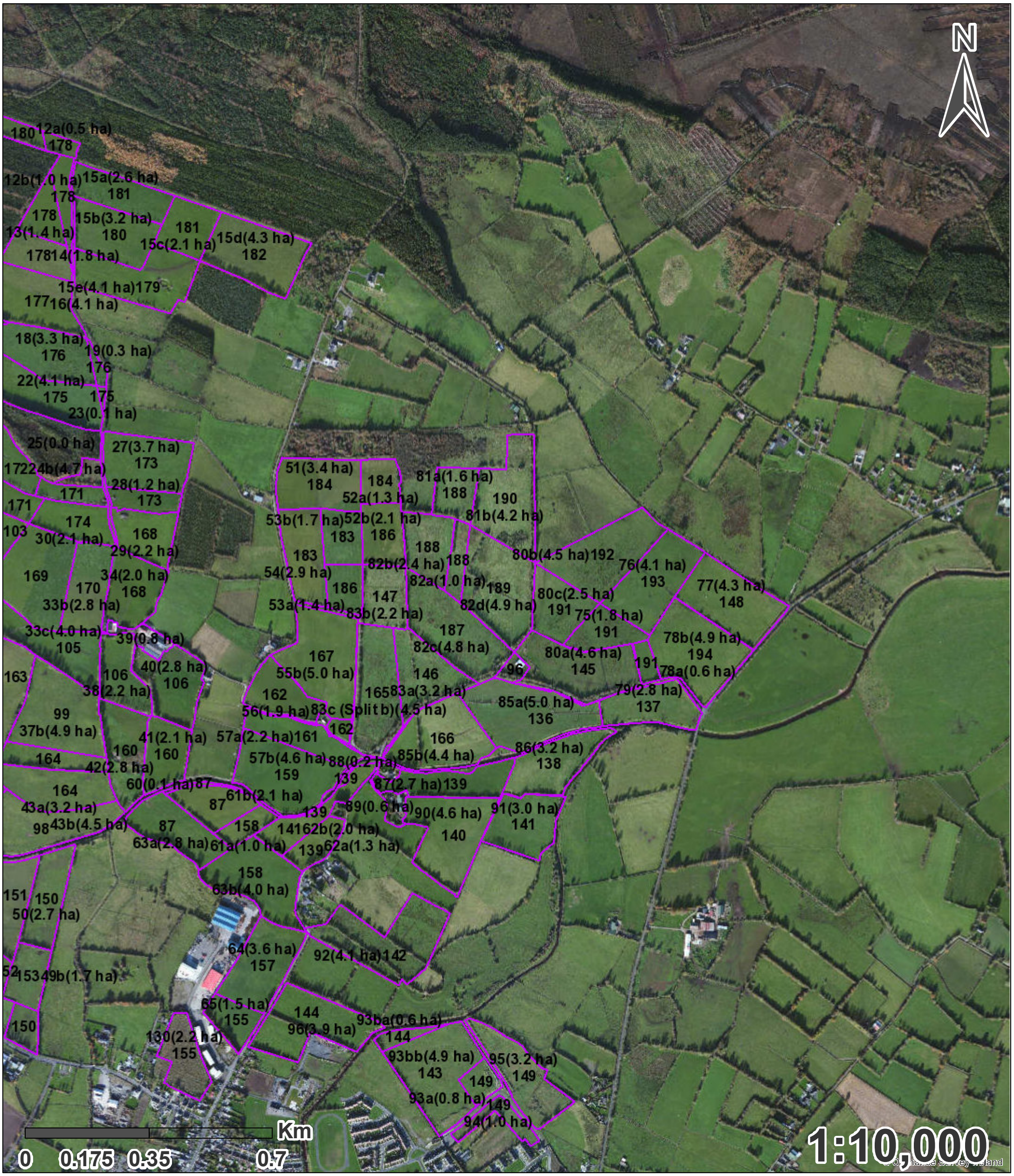

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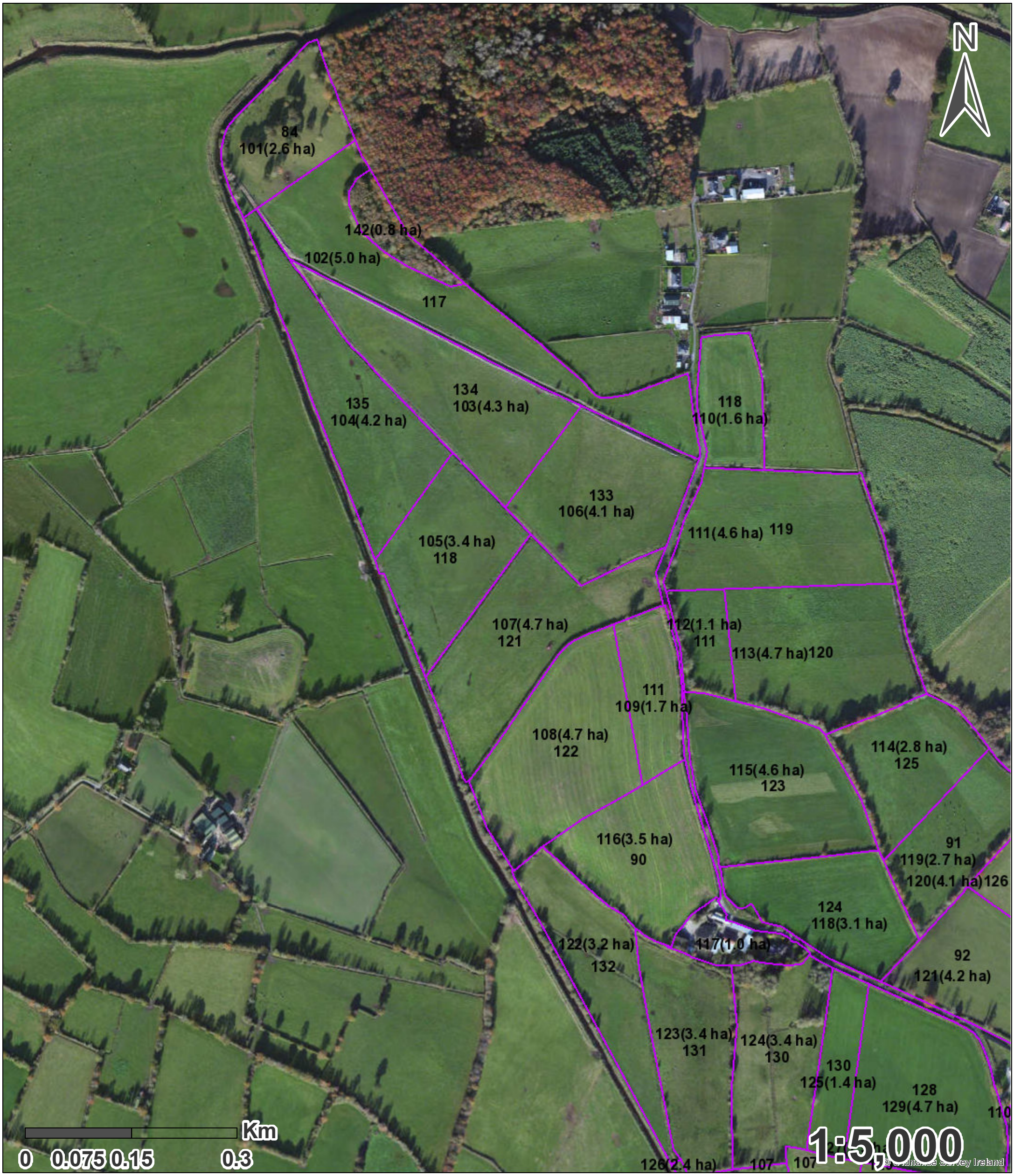

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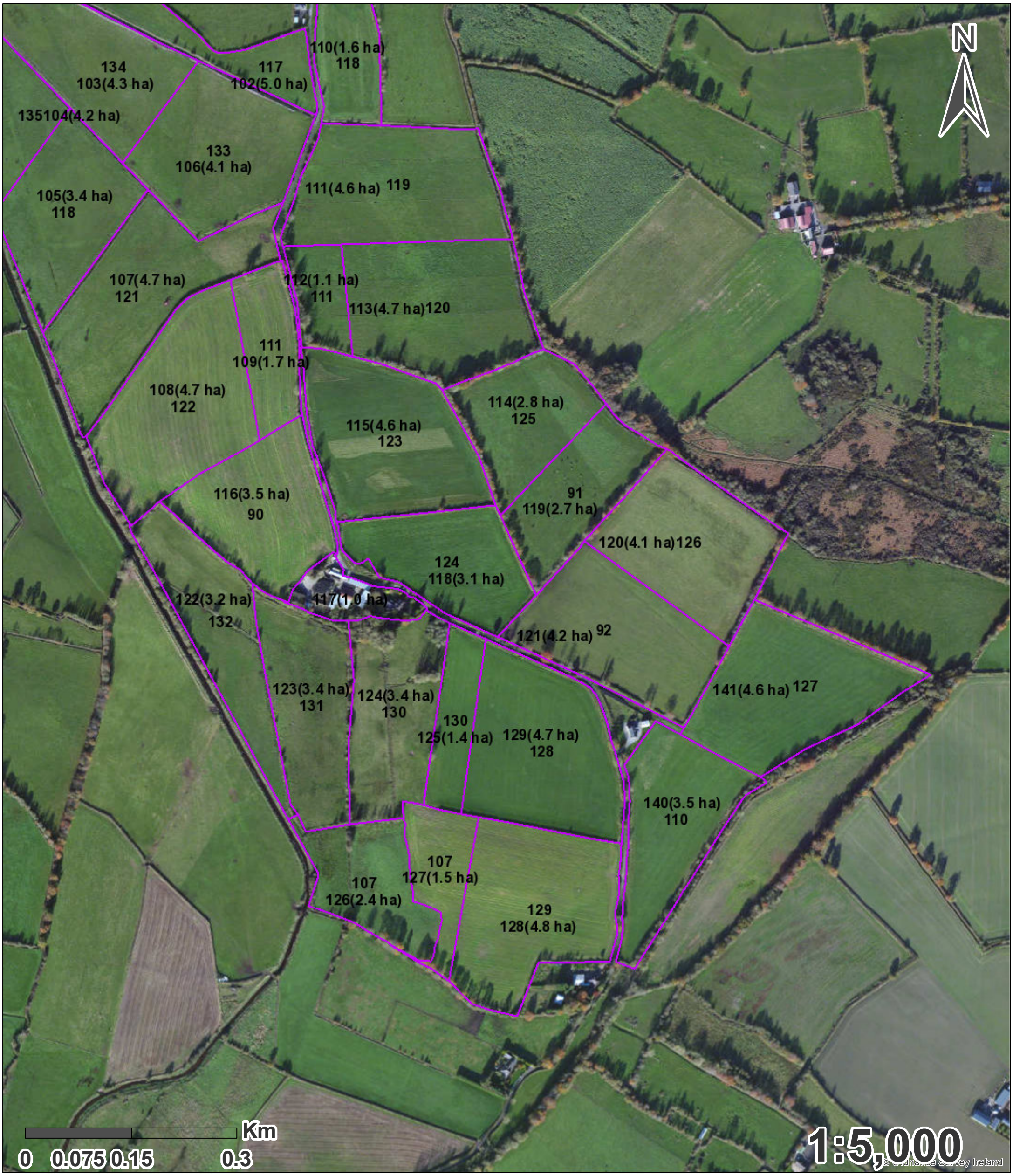

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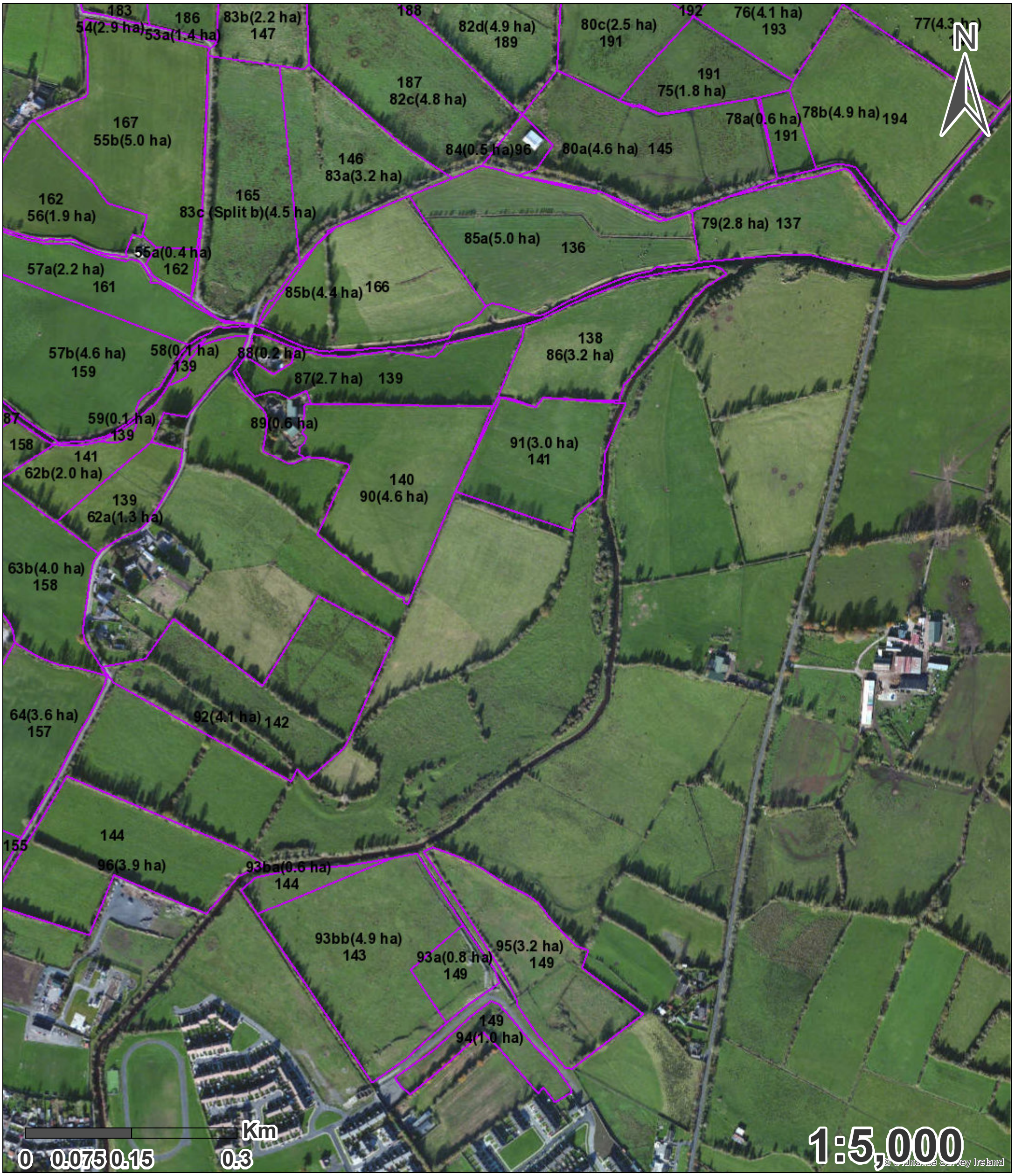

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