

Name	Levamar Limited
Address	Ironmills, Ballinakill
County (Zone)	Laois (K)
Herd No.	K1040787

This fertiliser plan is based on the information provided to Michael J Ryan. Micheal J Ryan cannot accept responsibility for inaccurate information being supplied.

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 2020
- 10.)- Cereal crop yields where relevant
- 11.)- Plan Notes – where relevant



As both yards have their own facilities, all calculations are the totals from both yards based on the total number of cows to be milked. The manure pit is within a shed and seepage runs directly into a slurry tank. Stock are moved throughout the holding and between yards as required and both premises are operated as a single unit under a single herd number. Slurry must be exported in order to remain below the 170 kg Org N/ha whole farm stocking rate which results in there being surplus slurry storage capacity on the holding. As soil tests are not included, there is no chemical P assigned, that is index 4 is assumed for all land. No organic manures are spread on SAC/Natura lands. There is adequate land available to apply all organic manures produced on this holding. Stock numbers and spreading land ratio's interchange on most farms yearly. This particular holding is run as a single unit under a single trading name and a single herd identifier number and is no different to most farms in adapting to the changes brought about as opportunities arise for stock and land additions, or removals/losses. There have been changes almost every year on this farm with stock numbers, land area and cropping regime undertaken as the business reacts to the opportunities presented to it. Fertiliser plans are prepared by my office on behalf of farmers to ensure all organic and chemical fertilisers and soiled surface water are applied to all appropriate lands within the Department of Agriculture's acceptable rates and legal limits. Nutrient management plans are legally required to be amended within 7 days of any significant change in the farming business to accurately reflect the current and planned farming practices. This usually happens when there is a significant change in stock numbers, land area being farmed or a change in the cropping pattern on the land holding being farmed. This is a legal requirement under the Nitrates Regulations and is designed to ensure that the farmer concerned remains compliant with the provisions of the Nitrates Regulations relating to having adequate housing and manure storage facilities, and adequate suitable land to spread these

manures on while remaining compliant with the maximum whole farm stocking rate permitted which is 170kgs Org N/ha without having a derogation, which in this case the farmer is not eligible to apply for. It also outlines the maximum fertilisation rates for each plot and crop on the holding both for organic and chemical fertiliser as set out in the Nitrates Regulations. This applicant has adequate housing facilities for all the animals within his care. There are also adequate facilities for the storage of organic manures and for the storage of soiled water as required under the Nitrates Regulations. The Nutrient Management plan enclosed deals with all the slurry produced by the entire farm holding based on the 2021 land area, stocking rate (Dec21), housing, soiled yards and the holding tank facilities at both yards in 2021. It also deals with the requirements for the farm to remain compliant with the stocking rate provisions of the Nitrates Regulations by specifying the amount of slurry to be exported in 2021. This plan now forms the basis of the 2022 planned farming operations and remains valid until a further significant business change occurs when an updated plan may at that point in time be required. Under this 2021 NMP - slurry was exported. This ensured that the whole farm stocking rate remained below 170kg org N/ha as required by law. Soil tests have been carried out but are not included within this report (as the references to plots will become confusing). For this report we have taken the acceptable rate of Index 3 for Phosphorus (P) for all land farmed, this is perfectly legal and means that no P fertiliser above the indicated amounts may be applied on the holding. In my fertiliser recommendations I have recommended that no P chemical fertiliser be applied thus assuming P index 4 by default, which while playing safe, can not possibly lead to a breach of any rules concerning P fertiliser application. This assumption has no effect on the application of organic manures as any holding may apply all organic manures produced on it irrespective of the P status of the holding even on P Index 4 soils in certain situations. This plan demonstrates that the applicant does not need to spread organic manures on the SAC/Natrua Lands and that the requirement to respect buffer zones where required is also independent of the rate of application of manures in the rest of the individual plots concerned. The limiting factor in the amount of organic manures to be spread is the availability of same, not the ability of the land to take the manure loading permitted. This arises as there is a significant export of slurry related to the requirement to remain stocking rate compliant in the absence of a Derogation as the farm has more than 5% tillage area and thus is not permitted to apply for a Nitrates Derogation. Were there to be no tillage crops, then a derogation could be applied for and then the whole farm stocking rate could be raised to 250 kg Org N/ha which is much higher than the current whole farm stocking rate before exports of slurry. Winter milking is confined to the yard at Ironmills only in the interests of efficiency as there are only 60 or so cows to be milked overwinter.

Farm & Soil fertility Summary

Fertiliser Plan Summary		Levamar Limited	2021	
Herd No.	K1040787	Land Areas	Ha	%
Address	Ironmills, Ballinakill	Total	167.89	
County (Zone)	Laois	Grassland	125.6	74.8
Weeks Storage.	16 Weeks	Arable	42.29	25.2
		Sampled Areas	0.00	0.00
Closed Periods		Stocking Rates		
Chemical	15 September to 12 January	Whole Farm Stocking Rate	166.38 kg/Ha	
Slurry	15 October to 12 January	Current years Grassland GSR	255.78 kg/Ha	
FYM	1 November to 12 January	Previous GSR	220.00 kg/Ha	

Soil Fertility Summary																																																												
Overall Fertility Status	Lime	Phosphorus	Potassium																																																									
pH > 6.2, P & K index 3 or 4	Soil pH > 6.2	P Index	K Index																																																									
<i>Graphics and data for soil fertility require soil sample info to be included and linked to parcels.</i>	<i>Graphics and data for soil fertility require soil sample info to be included and linked to parcels.</i>	<i>Graphics and data for soil fertility require soil sample info to be included and linked to parcels.</i>	<i>Graphics and data for soil fertility require soil sample info to be included and linked to parcels.</i>																																																									
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%reduction in farm capacity to perform based on current fertility levels compared to optimal fertility			
pH, P and K	pH	P	K
Soil pH & Lime	Target pH	Grass	Tillage
Lime Planned	Mineral Soil	6.3	6.5
2021 0 Tonnes	Organic Soil	5.5	5.5
2022 0 Tonnes			
2023 0 Tonnes			
2024 0 Tonnes			

Organic Manure Plan

Chemical Fertiliser Advice

Nutrient Balance				Planned Fertilisers	
	N(kg)	P(kg)	K(kg)	Fertiliser	Tonnes
Chemical Recommended	41,114	2,928 (100%)	5,797	Urea(46%N)	69.81
Max Chemical Allowed	41,114	3,851			
Chemical Usage	32,111	0	0		

Lime Requirements

Plot Name	Crop	Area (Ha)	Soil Sample Id	Soil Sample pH	Lime Req (T/Ha)	Advised Lime			
						2021 (T/Ha)	2022 (T/Ha)	2023 (T/Ha)	2024 (T/Ha)
No data available in table									
Annual Totals (tons)						0	0	0	0

Fertiliser plan for the Farm

Manure Allocations			
Fertiliser	Estimated T	Applied T	Balance T
Cattle Slurry	733	731	1
Farmyard Manure	792	793	0
Total P in Manures (Grazing + Non-Grazing 1,425.0)			710

Planned Fertilisers	
Fertiliser	Tonnes
Urea(46%N)	69.81

Nutrient Balance			
	N(kg)	P(kg)	K(kg)
Chemical Recommended	41,114	2,928 (100%)	5,797
Max Chemical Allowed	41,114	3,851	
Chemical Usage	32,111	0	0

Plot	Crop	Area(Ha)	Soil Sample	Index	Nutrients Applied (Kg/Ha)			Nutrients Advice (Kg/Ha)			Organic Manures		Chemical Fertilisers
					N	P	K	N	P	K	Farmyard Manure (T/Ha)	Cattle Slurry (M3/Ha)	Urea(46%N) (Kg/Ha)
plot 1	Grazing	9.28		1 3 3	233	2	10	279	23	35	2.0	1.0	500.0
Plot 10	Grazing	1.88		1 3 3	235	3	13	279	23	35	2.0	2.0	500.0
Plot 11	Grazing	0.16		1 3 3	235	3	13	279	23	35	2.0	2.0	500.0
plot 12	Grazing	2.38		1 3 3	232	2	8	279	23	35	2.0	0.0	500.0
Plot 12a	Grazing	0.13		1 3 3	232	2	8	279	23	35	2.0	0.0	500.0
Plot 13	Grazing	1.92		1 3 3	232	2	8	279	23	35	2.0	0.0	500.0
Plot 14	Grazing	4.01		1 3 3	232	2	8	279	23	35	2.0	0.0	500.0
Plot 17	Grazing	2.34		1 3 3	232	2	8	279	23	35	2.0	0.0	500.0
Plot 18	Grazing	4.33		1 3 3	232	2	8	279	23	35	2.0	0.0	500.0
Plot 19	Grazing	6.13		1 3 3	233	2	12	279	23	35	3.0	0.0	500.0
Plot 20	Grazing	11.68		1 3 3	233	2	12	279	23	35	3.0	0.0	500.0
Plot 21	Grazing	0.93		1 3 3	233	2	12	279	23	35	3.0	0.0	500.0
Plot 23	Grazing	2.58		1 3 3	233	2	12	279	23	35	3.0	0.0	500.0
Plot 24	Grazing	5.15		1 3 3	233	2	12	279	23	35	3.0	0.0	500.0
Plot 25	Grazing	12.56		1 3 3	233	2	12	279	23	35	3.0	0.0	500.0

Plot 27	Maize	4.72		1 3 3	42 24 110	180 40 190	15.0	20.0	0.0
Plot 28	Maize	11.24		1 3 3	42 24 110	180 40 190	15.0	20.0	0.0
Plot 29	Grazing	1.17		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 30	Grazing	1.78		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 31	Grazing	1.31		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 32	Grazing	3.89		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 33	Grazing	1.92		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 34b	Grazing	0.09		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 35	Grazing	4.41		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 36	Grazing	0.22		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 37	Grazing	2.13		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 38	Grazing	5.07		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 39	Grazing	2.56		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 3a	Beet	4.89		1 3 3	187 6 25	195 40 160	0.0	10.0	375.0
Plot 3b	Beet	1.32		1 3 3	187 6 25	195 40 160	0.0	10.0	375.0
Plot 3c	Winter Wheat (Feed)	1.37		1 3 3	207 18 85	210 25 110	15.0	10.0	390.0
Plot 3d (Split a)	Winter Wheat (Feed)	1.08		1 3 3	207 18 85	210 25 110	15.0	10.0	390.0
Plot 3d (Split b)	Winter Wheat (Feed)	0.97		1 3 3	196 0 0	210 25 110	0.0	0.0	425.0
Plot 3e	Grazing	1.04		1 3 3	230 0 0	279 23 35	0.0	0.0	500.0
Plot 40	Grazing	4.20		1 3 3	233 2 12	279 23 35	3.0	0.0	500.0
Plot 42	Grazing	3.10		1 3 3	236 2 10	279 23 35	0.0	4.0	500.0
Plot 43	Grazing	1.63		1 3 3	236 2 10	279 23 35	0.0	4.0	500.0
Plot 44	Grazing	4.04		1 3 3	236 2 10	279 23 35	0.0	4.0	500.0
Plot 46	Grazing	4.85		1 3 3	236 2 10	279 23 35	0.0	4.0	500.0
Plot 47	Winter Wheat (Feed)	5.46		2 3 3	177 18 85	180 25 110	15.0	10.0	325.0

Plot 48	Grazing	1.12		1 3 3	236 2 10	279 23 35	0.0	4.0	500.0
Plot 5	Winter Wheat (Feed)	3.94		1 3 3	207 18 85	210 25 110	15.0	10.0	390.0
Plot 6	Grazing	12.31		1 3 3	230 0 0	279 23 35	0.0	0.0	500.0
Plot 8	Maize	7.30		1 3 3	42 24 110	180 40 190	15.0	20.0	0.0
Plot 9	Grazing	3.30		1 3 3	238 5 22	279 23 35	3.0	4.0	500.0

Summary of All Livestock on the holding

Total Nitrogen and Phosphate produced

Animal	No. Animals	N/head	N Total	P/head	P Total
Dairy cow	264	89.0	23,496.0	13.0	3,432.0
Cattle > 2 years	25	65.0	1,625.0	10.0	250.0
Cattle (1-2 year old)	85	57.0	4,845.0	8.0	680.0
Cattle (0-1 year old)	90	24.0	2,160.0	3.0	270.0
		Total N	32126	Total P	4632

Animal Breakdown

Animal Category	N Total	P Total
Grazing	32126	4632
Non-Grazing	0	0

Projected Exports

Manure Type	Quantity (t)	Total N (kg)	Total P (kg)
Cattle Slurry	894.0	4,470.0	715.2
	Totals	4470	715.2

Projected Imports

Manure Type	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
27,656.0	3,916.8

Stocking Rates

Whole Farm Stocking Rate Current Year	Grassland Stocking Rate Current Year	Grassland Stocking Rate Previous Year
166	256	220

Soil Samples Results

								Trace Elements							
Sample Id	Sample Code	Sample Date	Sampled Area (ha)	pH	Lime Req	P Value	K Value	Soil Type	Mg	Cu	ER Mn	Zn	Bo	Co	Tot. Mn
No data available in table															

Manures Produced on Holding and Storage Facilities on Farm

Slurry Produced

From Animals

Animal	Nb. on Slurry	Weeks slurry produced	Weeks slurry required	Total Slurry Produced (m3)	Storage requirement (m3)
Dairy cow	224	16	16	1,182.7	1,182.7

Total Slurry Produced

1,182.7 m³ Gallons

Total Storage Required

1,182.7 m³ Gallons

From Dirty Yards

Rectangular Areas

Yard	Length (m)	Width (m)	Area (m2)
Feeder	35.9	1.4	50.3
Y1	15.2	12.8	194.6
Y2	15.2	7.9	120.1
Y3	28.7	5.9	169.3

Circular Areas

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

Total Storage Required for Dirty Yards

188.0 m³ Gallons

From FYM Seepage

Under Animals

183.7 m³

From Uncovered FYM Heaps

0.0 m³

Total FYM Seepage to be Stored

183.7 m³

Gallons

From Dairy Washings

Total Storage Required for Dairy Washings to be stored with Slurry

0.0 m³

Gallons

Slurry Storage

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Covered(Rectangle)	1	4.1	31.0		2.4	276.2
Covered(Rectangle)	2	3.5	31.0		2.4	238.7
Covered(Rectangle)	3	3.2	31.0		2.4	218.2
Covered(Rectangle)	4	3.2	9.1		2.1	55.3
Uncovered(Rectangle)	5	6.7	1.2		1.2	4.4
Uncovered(Rectangle)	6a	4.5	3.8		2.4	29.9
Covered(Rectangle)	7	3.3	18.5		2.1	116.0
Covered(Rectangle)	8	3.7	18.0		2.4	146.5
Covered(Rectangle)	9	3.1	26.0		2.1	153.1
Covered(Rectangle)	10	3.1	26.0		2.1	153.1
Uncovered(Rectangle)	12	4.7	38.3		2.7	375.9
					Net Capacity	1,767.0

Slurry Storage Balance

Farm Slurry Storage Balance

Slurry Produced (Animals)

Cattle Slurry Imported

Cattle Slurry Exported

Slurry Produced (Dirty Yards)

Total Slurry to be stored on Farm

1,182.7 m³

Volume of Cattle Slurry for Spreading

1,182.7 m³0.0 m³894.0 m³

	188.0	m ³	188.0	m ³
Slurry Produced (FYM Seepage)	183.7	m ³	183.7	m ³
Slurry Produced (Dairy Washings)	0.0	m ³	0.0	m ³
Slurry Produced (Rainfall in open tanks - 16 weeks)			72.2	m ³
Total Slurry Produced	1,554.4	m ³	732.7	m ³
		Gallons		Gallons
Dilutes Added to Slurry			443.9	m ³
Dilution factor			72.7	%
Total Available Net Storage	1,767.4	m ³		
Surplus Storage Available	213.0	m ³		

Farm Soiled Water Storage Balance

Soiled Water Produced (Dairy Washings)	18.2	m ³		Gallons
Soiled Water Produced (Yards)	13.3	m ³		Gallons
Total Available Net Soiled Water Storage	124.6	m ³		Gallons
Surplus Storage Available	93.1	m ³		Gallons

Soiled Water

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Uncovered(Rectangle)	6	4.5	3.8		2.1	30.2
Uncovered(Rectangle)	11	3.8	12.0		2.4	94.3
					Net Capacity	125.0

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)
Cattle > 2 years	20	M	16	16	97.9	97.9	21.1	6,400.0
Cattle (1-2 year old)	80	M	16	16	391.7	391.7	84.5	25,600.0
Cattle 0-1 yr	80	M	16	16	256.0	256.0	38.4	17,920.0
Dairy cow	40	M	16	16	282.9	282.9	39.7	19,200.0

Total Straw Usage

69,120.0 kg

Seepage Produced

183.7 m³

Total FYM Produced

1,028.5 m³ tonne

Total FYM Storage

1,028.5 m³

Farmyard Manure

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Covered(Rectangle)	manure pit	15.0	20.0		2.5	750.0
					Net Capacity	750.0

FYM Under Animals

Storage Type	Location Name	Width	Length	Diameter	Depth	Net Capacity
Covered(Rectangle)	A (Under Animals)	12.1	29.0		0.6	210.5
Covered(Rectangle)	B (Under Animals)	4.0	18.0		0.6	43.2
Covered(Rectangle)	C (Under Animals)	4.4	9.0		0.6	23.8
Covered(Rectangle)	D (Under Animals)	4.4	13.0		0.1	5.7
Covered(Rectangle)	E (Under Animals)	4.0	4.0		0.6	9.6
Covered(Rectangle)	F (Under Animals)	3.7	11.8		0.6	26.2
					Net Capacity	623.0

Covered(Rectangle)	G(Under Animals)	7.0	14.2		0.6	59.6
Covered(Rectangle)	H(Under Animals)	8.8	33.6		0.6	177.4
Covered(Rectangle)	I(Under Animals)	8.2	13.7		0.6	67.1
					Net Capacity	623.0

FYM Storage Balance

Seepage Produced

Under Animals	183.7	m ³		Gallons
From Uncovered FYM Heaps	0.0	m ³		Gallons
Total FYM Seepage to be Stored	183.7	m ³		Gallons

FYM Storage Balance

Total FYM Storage Required	1,028.5	m ³
Nutrient Adjustment Factor	66.0	%

FYM Storage Available

Storage Available Under Animals	623.1	m ³
Storage Available As Covered FYM Stores	750.0	m ³
Storage Available As Uncovered FYM Stores	0.0	m ³
Total FYM Storage Available	1,373.1	m ³

FYM Storage Balance

Surplus Storage Available	344.7	m ³
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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:220 kg/Ha)	250	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	125.6	125.6	250	31,400.0										31,400.0
Winter Wheat (Feed)	12.82	7.36	210	1,545.6	5.46	180	982.8							2,528.4
Beet	6.21	6.21	195	1,211.0										1,211.0
Maize	23.26	23.26	180	4,186.8										4,186.8
Non- Farmed Area	0.14							0.14	0	0.0				0.0
Farmyard and Roads	2.59	1.23	0	0.0				1.36	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	125.6							125.6	19	2,386.4				2,386.4
Winter Wheat (Feed)	12.82							12.82	25	320.5				320.5
Beet	6.21							6.21	40	248.4				248.4
Maize	23.26							23.26	40	930.4				930.4
Non- Farmed Area	0.14							0.14	0	0.0				0.0
Farmyard and Roads	2.59							2.59	0	0.0				0.0

N allowance	(Kgs)
Maximum total available N	39,326.2
- 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 3,954.0)	1,788.0
Maximum Chemical N fertiliser allowed	41,114.2

P allowance	(Kgs)
Maximum total available P	3,885.7
- Total P in Manures produced on holding (0 from Grazing from 2018)	0.0
+ Manure P not available (Applied to index 1 & 2)	0.0
- Total P in manures Imported	0.0
+ Total P in manures Exported (Max 1,425.0)	715.0
Total P in Concentrate Feeds Used	750.0
Discounted P in feeds (up to 300kg)	0.0
- Net P in concentrate feeds used	750.0
Maximum Chemical P fertiliser allowed	3,850.7

Concentrate Feeds

Straight Feed Accounting Method

Book Value

Compound Feed Accounting Method

Default(5kg)

Last years total organic N

0 kg

Total P Fed to Grazing Livestock

750 kg

Total P to be discounted

0 kg

Net P contributing to Available Allowance

750 kg

Name	Quantity (t)	P Content Data Source	P Content	Total P (kg)
feed	150.0	Default(5kg)	5.0	750.0
	150.0			

Cereal crop yields

Crop

Plan Notes

Soil Samples

Farmer notes:

Winter Dairy Herd

Farmer notes: A small number of cows, approx 50 to 60 will be milked through the winter in Ironmills only.

Collecting Yard

Farmer notes: A small number of cows, approx 50 to 60 will be milked through the winter in Ironmills only.

Yards to Soiled H2O

Farmer notes: A small number of cows, approx 50 to 60 will be milked through the winter in Ironmills only.

Dairy Washings Summary

Farmer notes: A small number of cows, approx 50 to 60 will be milked through the winter in Ironmills only.