WARNFORD PARK - PHASE 1 - HIGH PRIORITY AREAS

NITRATE MITIGATION SCHEDULE - EVIDENCE OF HISTORIC LAND USE (APPENDIX 4) - revised 20th April 2022

Map Ref	Field Name	Current OS Sheet	Current NGr/ref	Gross Ha	Eligible Ha	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		Land Use	Dairy Ha	Arable Ha	N Credits per Field (kgN) pre 16.3.22	post 16.3.22	Total	Mitigation Area and Land Use Notes (original - note revisions to N credits post 16.3.22)*
						Evidence Land Use Records taken from the Single Payment Scheme / Basic Payment Scheme																										
		Data from 2010 BPS digitisation				Ha	Crops	Ha	Crops	Ha	Crops	Ha	Crops	Ha	Crops	Ha	Crops	Ha	Crops	Ha	Crops	Ha	Crops	Ha	Crops							
1	Barn Field LHS	SU6123	3862	5.97	5.97	5.96	TG1	5.26	TG1	5.26	TG1	5.26	TG2	4.81	PP1	5.40	PGD1	5.26	PGD1	5.26	PGD1	5.26	PGD1	5.26	PGD1	**Dairy**	5.26				**315.60**	**315.60**	The majority of the field has been in dairy grassland and this area has averaged 5.27ha over the 10 years. In 2014, the grass area was temporarily reduced to 4.81ha with a greater area of arable, then increased in the following year. For the mitigation value of the field, we have used 5.26ha being the consistent grass area for the past 4 years and slightly lower than the average grass area over the 10 years. We have ignored the mitigation value from the arable part of the field (to err on the side of caution) as this has been in crop rooms years and fallow in other years. The nitrate value of the field is therefore provided as 5.26Ha x 31.2kgN/ha.
						0.71	OT1	0.71	OT1	0.71	OT1	0.71	OT1	1.16	OT1	0.57	FAD1	0.71	AC17	0.71	AC17	0.71	AC17	0.71	AC17	**None**						
2	Warren	SU6123	3018	2.87	2.87	2.88	PP1	2.88	PP1	2.88	PP1	2.88	PP1	2.88	PP1	2.88	PGD1	2.88	PGD1	2.88	PGD1	2.87	PGD1	2.87	PGD1	**Dairy**	2.65		**107.59**		**107.59**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 2.87ha. The north western corner is not owned. The nitrate value of the field is therefore provided as 2.65ha x 31.2kgN/ha.
3	Pheasant 2	SU6123	4003	1.54	1.54	1.57	PP1	1.56	PP1	1.56	PP1	1.56	PP1	1.56	PP1	1.56	PGD1	1.56	PGD1	1.56	PGD1	1.54	PGD1	1.54	PGD1	**Dairy**	1.54		**63.97**		**63.97**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 1.54ha. The nitrate value of the field is therefore provided as 1.54Ha x 31.2kgN/ha.
4	Barn Field RHS bottom	SU6123	4670	5.05	5.05	5.44	TG1	8.45	TG1	8.45	TG1	8.45	TG2	8.45	PP1	8.45	PGD1	8.45	PGD1	8.45	PGD1	5.05	PGD1	5.05	PGD1	**Dairy**	5.05		**304.68**		**304.68**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 5.05ha. The nitrate value of the field is therefore provided as 5.05Ha x 31.2kgN/ha. From 2018 the field has been split and the other part is now recorded under SU6123 5050 below.
						0.84	OT1																			**None**						
						1.05	AE1																			**None**						
5	Barn Field RHS bottom	SU6123	5050	3.36	3.36																	3.36	PGD1	3.36	PGD1	**Dairy**	3.36		**105.08**		**105.08**	This field used to be a part of SU6123 4670 above. The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 3.36ha. The nitrate value of the field is therefore provided as 3.36Ha x 31.2kgN/ha
6	Pheasant 1	SU6123	5123	3.15	3.15	3.16	PP1	3.16	PP1	3.16	PP1	3.16	PP1	3.16	PP1	3.16	PGD1	3.16	PGD1	3.15	PGD1	3.15	PGD1	3.15	PGD1	**Dairy**	3.15		**127.99**		**127.99**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 3.15Ha. The nitrate value of the field is therefore provided as 3.15Ha x 31.2kgN/ha.
7	Dell / Barn RHS top	SU6123	6084	7.15	7.15	4.33	TG1	4.79	TG1	4.79	TG2	4.79	TG1	4.79	PGD1	4.79	PGD1	4.79	PGD1	4.83	PGD1	4.83	PGD1	4.83	PGD1	**Dairy**	4.75		**192.99**		**192.99**	The dairy grassland area of this field has averaged 4.79ha over the 10 years. It has been higher that this it every year since 2010 (NB the field has also been referenced at SU6123 3048B). The remainder of the field has been either cropped, fallow or under a muck heap, but these areas have been discounted from the nitrate claculations (to err on the side of caution). The nitrate value of the field is therefore provided as 4.75Ha x 31.2kgN/ha.
										1.86	OT1	1.88	OT1	2.23	OT1	2.18	FAD1	0.15	NA02	1.62	FAD1	1.62	FAD1	1.62	FAD1	**None**						
																		0.50	AC17	0.50	AC17	0.50	AC17	0.50	AC17	**None**						
																		1.68	FAD1	0.15	NA02	0.14	NA02	0.14	NA02	**Dairy**						
8	Pinks Hill Wood Bt	SU6123	7143	2.46	2.36	1.82	OT1	1.91	OT1	1.91	TG1	1.91	TG01	1.91	TG1	1.91	TG01	1.91	TG01	2.36	PGD1	2.36	PGD1	2.36	PGD1	**Dairy/Ar**	1.46	0.27	**68.41**		**68.41**	A minimum area of 1.91ha has been in dairy grassland for the last 8 years (NB the field has also been referenced at SU6123 6835B). In 2010 and 2011 the field was used for arable with a minimum area of 1.82ha. The nitrate value of the field is therefore provided at a conservative 1.83ha x 80% x 31.2kgN/ha plus 1.83ha x 20% x 26.2kgN/ha (equating to 1.83ha at an average of 30.20kgN/ha)
						0.54	PP4	0.54	PP4	0.54	PP4	0.54	PP4	0.54	PP4	0.54	PGD1	0.54	PGD1							**None**						
9	Pinks Hill Wood Tp	SU6123	7154	3.70	2.70	3.62	OT1	3.63	OT1	3.63	TG1	3.63	TG01	3.63	TG1	3.63	TG01	3.63	TG01	3.63	PGD1	3.70	PGD1	2.70	PGD1	**Dairy/Ar**	2.90	0.73	**185.69**		**185.69**	A minimum area of 3.63ha has been in dairy grassland for the last 8 years. In 2010 and 2011 the field was used for arable with a minimum area of 3.62ha. The nitrate value of the field is therefore provided at a conservative 3.63ha x 80% x 31.2kgN/ha plus 3.63ha x 20% x 26.2kgN/ha (equating to 3.63ha at an average of 30.20kgN/ha)
14	Mid (part pre 16.3.22)	SU6222	6928	2.57	2.42	2.54	PP1	2.54	PP1	2.54	PP1	2.54	PP1	2.54	PP1	2.54	PGD1	2.42	PGD1	2.42	PGD1	2.42	PGD1	2.42	PGD1	**Dairy**	2.27		**70.94**		**70.94**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 2.42ha. The nitrate value of the field is therefore provided as 2.42Ha x 31.2kgN/ha.
	Mid (part post 16.3.22)																									**Dairy**	0.05			**3.08**	**3.08**	
15	Peake 1/2/3	SU6222	7306	11.40	11.23	11.36	PP1	11.32	PP1	11.32	PP1	11.32	PP1	11.32	PP1	11.28	PGD1	11.23	PGD1	11.23	PGD1	11.23	PGD1	11.23	PGD1	**Dairy**	11.23			**464.62**	**464.62**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 11.23ha. The nitrate value of the field is therefore provided as 11.23Ha x 31.2kgN/ha.
16	Rurby (part pre 16.5.22)	SU6222	7742	3.81	3.81	3.76	PP1	3.76	PP1	3.76	PP1	3.76	PP1	3.76	PP1	3.76	PGD1	3.75	PGD1	3.75	PGD1	3.81	PGD1	3.81	PGD1	**Dairy**	2.70		**84.34**		**84.34**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 3.76ha. The nitrate value of the field is therefore provided as 3.76Ha x 31.2kgN/ha.
	Rurby (part post 16.5.22)																										1.05			**42.59**	**42.59**	
17	Hayden S Bottom (part pre 16.5.22)	SU6222	8734	4.17	4.17																	4.17	PGD1	4.17	PGD1	**Dairy**	0.52		**16.22**		**16.22**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 4.17ha. The nitrate value of the field is therefore provided as 4.17Ha x 31.2kgN/ha. Prior to 2018, the field was mapped with SU6222 0147 below
	Hayden S Bottom (part post 16.5.22)																									**Dairy**	3.65			**147.99**	**147.99**	
18	Railway	SU6222	9426	2.16	2.16	2.11	PP1	2.16	PP1	2.16	PP1	2.16	PP1	2.16	PP1	2.16	PGD1	2.16	PGD1	2.17	PGD1	2.16	PGD1	2.16	PGD1	**Dairy**	2.11		**66.49**		**66.49**	The whole field has been in dairy grassland for the last 10 years with a minimum grass area of 2.11ha. The nitrate value of the field is therefore provided as 2.11Ha x 31.2kgN/ha.
19	Pinks Hill	SU6222	9335	8.68	8.29	7.26	OT1	7.46	OT1	8.28	OT1	8.28	OT1	8.28	OT1	6.68	AC56	6.68	AC01	6.68	AC17	6.70	AC56	7.50	AC01	**Arable**		7.26	**191.37**		**191.37**	A minimum area of 7.26ha has been in arable for the last 10 years. The nitrate value of the field is therefore provided at a conservative 7.26Ha x 26.2kgN/ha
						1.00	PP4	0.90	PP4							1.59	FAD1	1.59	FAD1	1.59	FAD1	1.59	FAD1	0.79	FAD1	**None**						
20.1	Bottom Field	SU6223	2970	29.19	29.19	26.36	OT1	29.35	OT1	29.35	OT1	29.35	OT1	29.35	OT1	29.15	AC56	29.15	AC01	29.15	AC57	50.88	AC56	51.14	AC01	**Arable**		29.15	**728.84**		**728.84**	The whole field has been in arable for the last 10 years with a minimum area of 29.15Ha. The nitrate value of the field is therefore provided as 29.15Ha x 26.2kgN/ha. From 2018 the field was mapped with fields SU6123 8471 and SU6223 4961 although the original field boundaries remain and the arable area of this field remains at 29.15Ha.
20.2	Long Field	SU6223	2970	7.59	7.59	6.16	OT1	6.98	OT1	6.85	OT1	7.48	OT1	7.48	OT1	7.48	AC56	7.42	AC01	7.42	AC57					**Arable**		6.16	**159.59**		**159.59**	The whole field has been in arable for the last 10 years with a minimum area of 6.16Ha, although since 2018 the field (formerly referenced as SU6123 8471) has been mapped with SU6223 2970. The nitrate value of the field is therefore provided as 6.16Ha x 26.2kgN/ha.
																		0.06	FAD1	0.06	FAD1					**None**						
22	Hayden S Top & Bt	SU6222	0147	6.51	6.51	10.56	PP1	10.56	PP1	10.56	PP1	10.56	PP1	10.56	PP1	10.56	PGD1	10.57	PGD1	10.57	PGD1	6.51	PGD1	6.51	PGD1	**Dairy**	6.39		**200.80**		**200.80**	The whole field has been in dairy grassland for the last 10 years. Prior to 2018, the field was mapped with SU6222 9734 above with a minimum gross area of 10.56Ha. The nitrate value of the field is therefore provided as 6.39Ha x 31.2kgN/ha, being the minimum balancing area of grassland.
	Total			111.33	110.52																						60.30	43.68	**174.40**	**8290.90**	**8479.70**	

Average Nitrate Credits (per hectare) net of woodland management - pre 16th March 2022

	kgN/ha/yr	less woodland N	Available kgN/ha/yr
Dairy	36.2	-5.0	**31.2**
Arable	31.2	-5.0	**26.2**

Average Nitrate Credits (per hectare) net of woodland management - post 16th March 2022

	kgN/ha/yr	less woodland N	Available kgN/ha/yr
Dairy	43.5	-3.0	**40.5**
Arable	27.9	-3.0	**24.9**

* contracts agreed pre 16th March 2022

Land Code Key

BPS

PP1 Permanent Grassland
PP4 Permanent Grassland (non dairy)
TG1 Temporary Grass
OT1 Arable
AE1 Agri-Environment

RPS

PGD1 Permanent Grassland
AC01 Spring Barley
AC16 Linseed
AC17 Maize
AC56 Winter Wheat
AC57 Winter Oilseed Rape
FAD1 Fallow/Stewardship
NA02 Temporary non-Ag Use (muck heap)
TGD1 Temporary Grass