Supporting Documents for Lower House Farm

Ground Water Transitional Licence Application

Business Trading Name – NG, BG & NL Llewellin

Business Address – Lower House, Clarbeston, Clarbeston Road, Pembrokeshire, SA63 4QX

Category - Technical Supporting Information

Date – 08/11/2019

Content:

Information

Brief history of farm eg type livestock only or mixed with arable crops

Lower House Farm are modern dairy units that is located within the hamlet of Clarbeston, Pembrokeshire. The principal contacts are Mr Ben Llewellin and Mr George Llewellin Senior, Ben is the fourth generation of the Llewellin family to farm Lower House farms.

The dairy farm is an all grass unit and consists of owned and rented land. The farmed land area is 149hectres (370cres) owned and 14.6hecares (36acres) rented on a farm summer rent agreement. The land bank is down to grass leys and silage cropping with concentrates fed to the cows to supplement the winter feed ration. The dairy herd is classed as a high performing with an annual average milk yield per cow up to 6000-9000lts and are serviced by Artificial insemination (AI) or by Bull

Average stocking at the farms amounts to 250 dairy cattle, the cows are kept on cubicles/straw-based systems. The younger stock between 3-13months 65animals and 13-24moths 65animals are kept at Lower House. Heifers generally calve at 24months when they joining the milking herd. On average cow numbers are held at 250LSU with barren cows being replaced by first time calvers.

All beef bull and heifer calf's are sold from the farm at approximately 2 to 4 weeks. These animals are fed on a milk substitute and never reach the stage to consume raw water while on the farm.

Water Supply

The farm groundwater source supplies two above ground storage tanks that transfers drinking and wash water for the dairy herd via drinking troughs, plate cooler and milking parlour system cleaning and bulk tank wash. The water transfer through the ring main is regulated via a pressure cut off switch system and float valves from the drinking troughs and milking parlour system through animal drinking pattern of the livestock and milking times on a needs basis. The storage tank volumes are $145m^3$ and $54m^3$.

The farm also has a public mains supply from DWR Cymru Welsh Water that services the farm dwelling and some outbuildings close to the farm. The farm lies within a groundwater abstraction exempt area Wales

Natural Water Resource

A growing number of livestock farmers are seeking to source water from alternative sources such as boreholes, springs, rivers, lakes or rainwater harvesting as costs of mains water increases.

Stock farm water is one of the most important natural resources, whether considering direct water consumption being stock drinking, washing and cleaning. Approximately a third to a half of all potable water abstractions are used for drinking with the remaining being used for cleaning parlours, yards and milk cooling.

From the 1 April 2005, an amendment was made to the Water Act 2003 that deregulated abstractions of **less** than $20m^3$/day the law now permits you to abstract up to a maximum of $20m^3$/day (equal to 20,000 litres per day) without the need for a licence. This is subject to conditions:

(1) You have a legal right to the source of supply if it is on your land.

(2) The abstraction is not part of a series of abstractions from the same source totalling a quantity greater than $20m^3$/day.

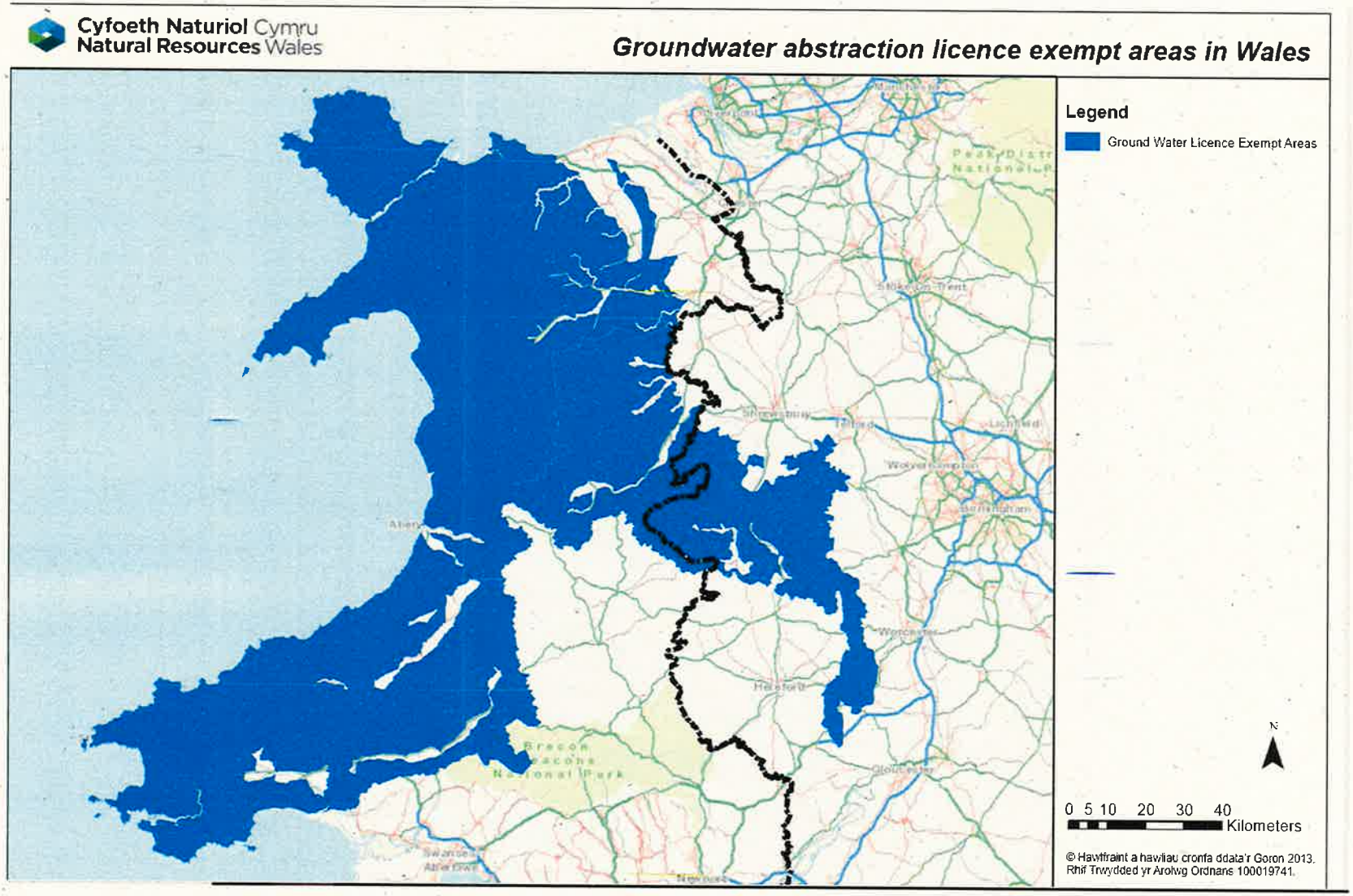
Natural Resources Wales have introduced an application window where a transitional licence application is required to be submitted during this period 1 January 2018 until 31 December 2019. Following this, there is up to a 3-year determination period. The application fee is currently £135. Transitional licence applications are required to be submitted during the application window 1 January 2018 until 31 December 2019 if you abstract more the exempt limit.

After the 31 December 2019 if more than $20m^3$/day a full licence application will have to be submitted to continue using the groundwater abstraction.

If a farm has several boreholes which one of them may be a domestic supply which all abstract from the same source of supply, i.e. the same groundwater source that in total abstract more than $20m^3$/day will require a licence.

Areas within Wales that are outside the Groundwater exempt area should all have an abstraction licence if they abstracted more than the exempt limit.

Map showing Exempt Groundwater Area Wales



Doc1 Letter of Authorisation

Becky@kebek.co.uk
07901339662

07 November 2019

Mr B Llewellin
Lower House
Clarbeston
Clarbeston Road
Haverfordwest
Pembrokeshire
SA62 4QX

Letter of Authorisation: Kebek Ltd

This is to certify that I, Ben Llewellin authorise our representatives of Kebek Ltd, to act on our behalf with regard to the application for the Transitional Licence for existing groundwater abstraction at Lower House Farm.

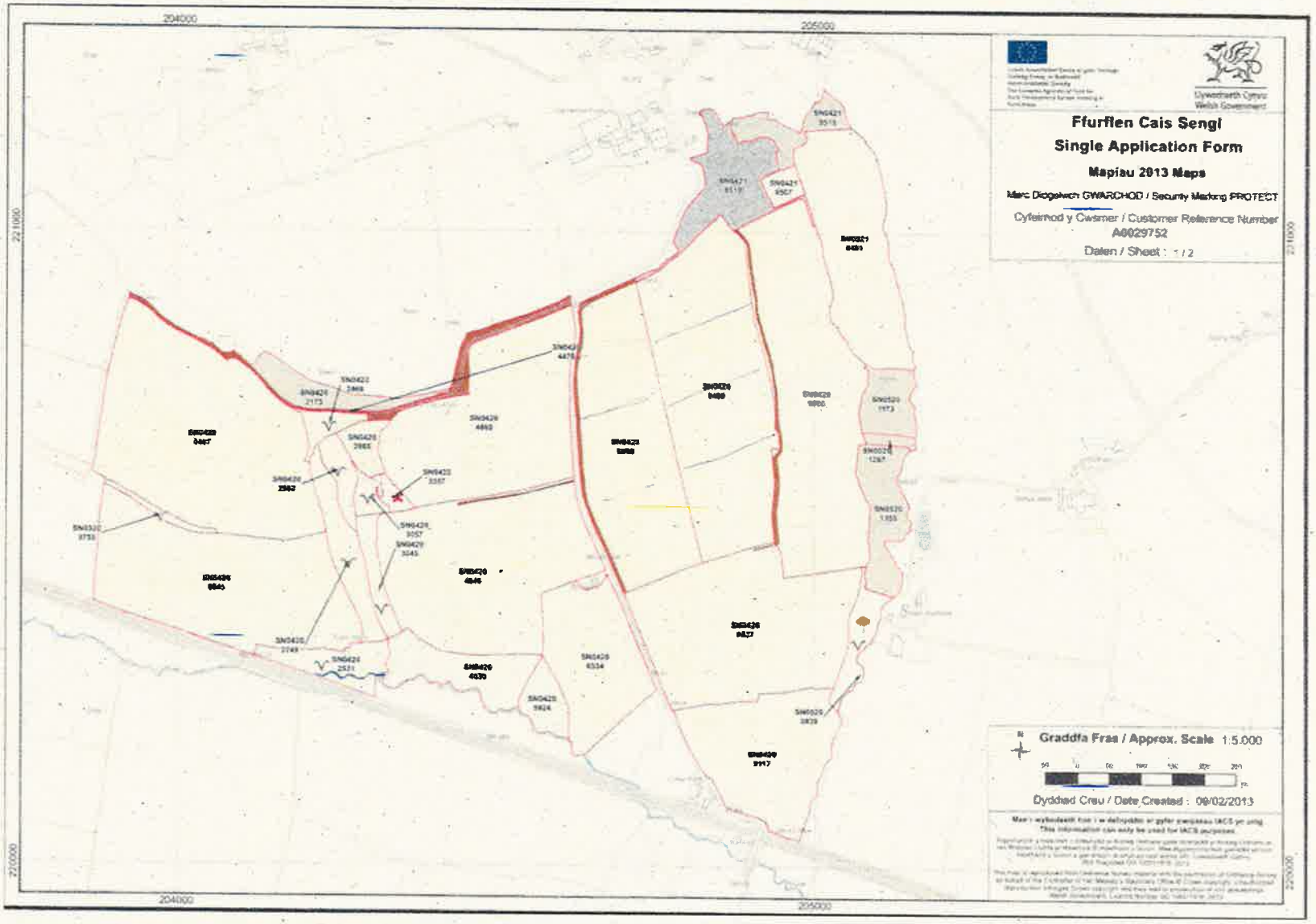
Name: Kebek Ltd
Company representative: Rebecca Jones and Keith Owen
Date: 7th November 2019.
Contact details:
Becky@kebek.co.uk 07901339662
Keith@kebek.co.uk 07522780346

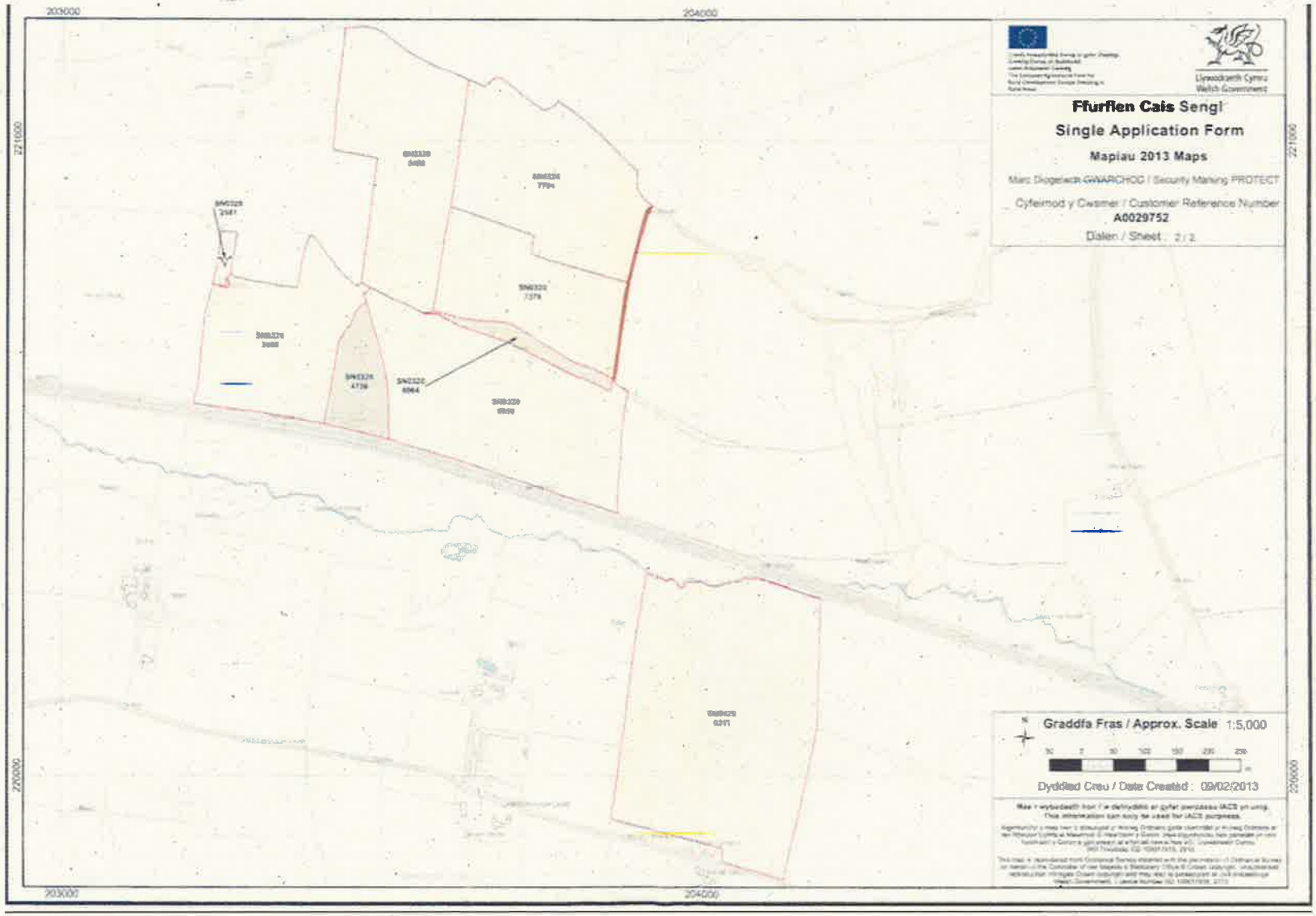
Yours sincerely

Ben Llewellin
Partner

Lower House Farm

Doc 2 – Entitlement to Land SFP Maps




203000
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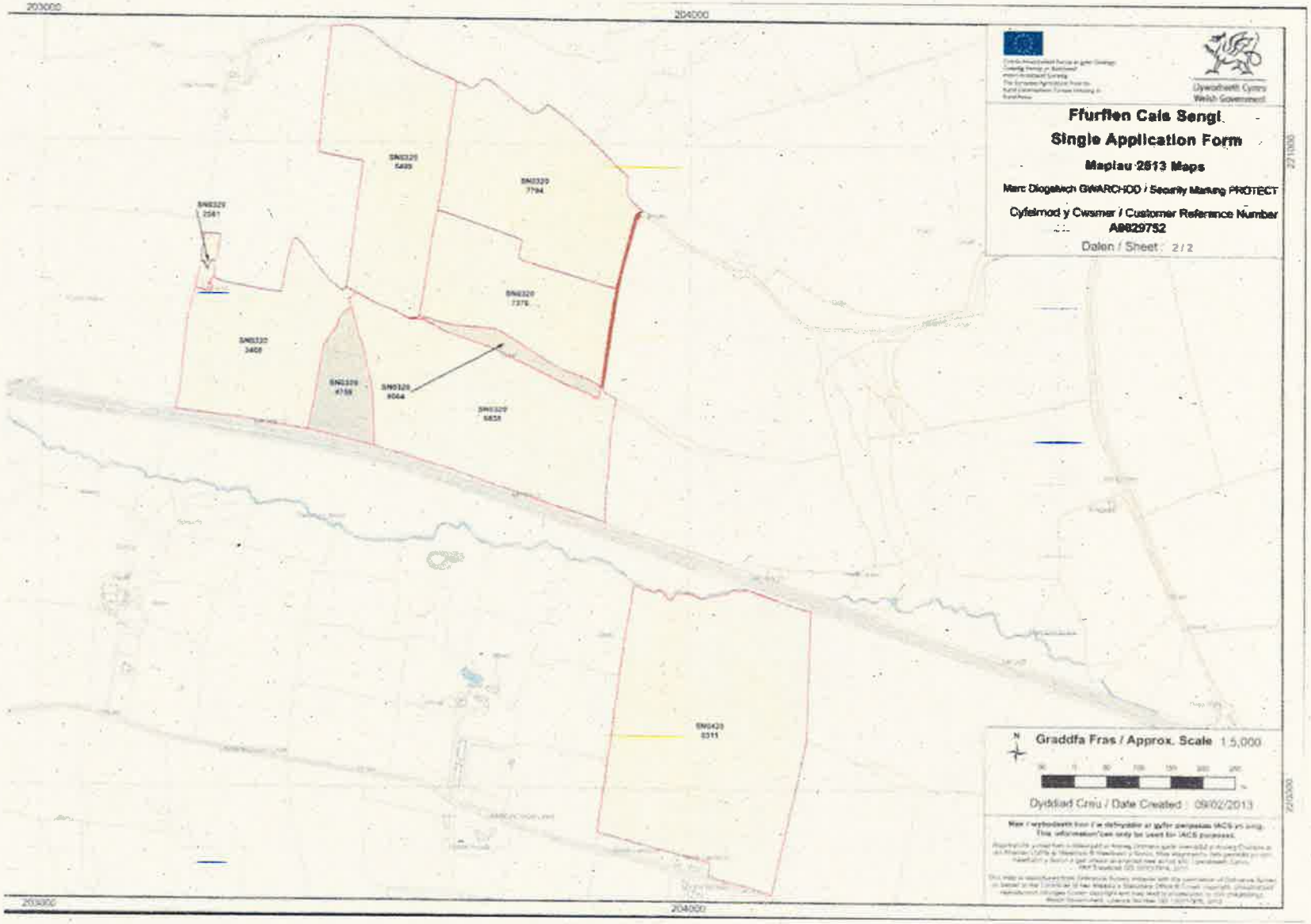
Llywodraeth Cymru
Welsh Government
Ffurflen Cais Sengl
Single Application Form
Mapiau 2013 Maps
Marc Diogelwch GWARCHOD / Security Marking PROTECT
Cyfeirnod y Cwsmer / Customer Reference Number
A0029752
Dalen / Sheet : 2 / 2
Graddfa Fras / Approx. Scale 1:5,000
Dyddiad Creu / Date Created : 09/02/2013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Llywodraeth Cymru
Welsh Government
Ffurflen Cais Sengl
Single Application Form
Mapiau 2013 Maps
Marc Diogelwch GWARCHOD / Security Marking PROTECT
Cyfeirnod y Cwsmer / Customer Reference Number
A9829752
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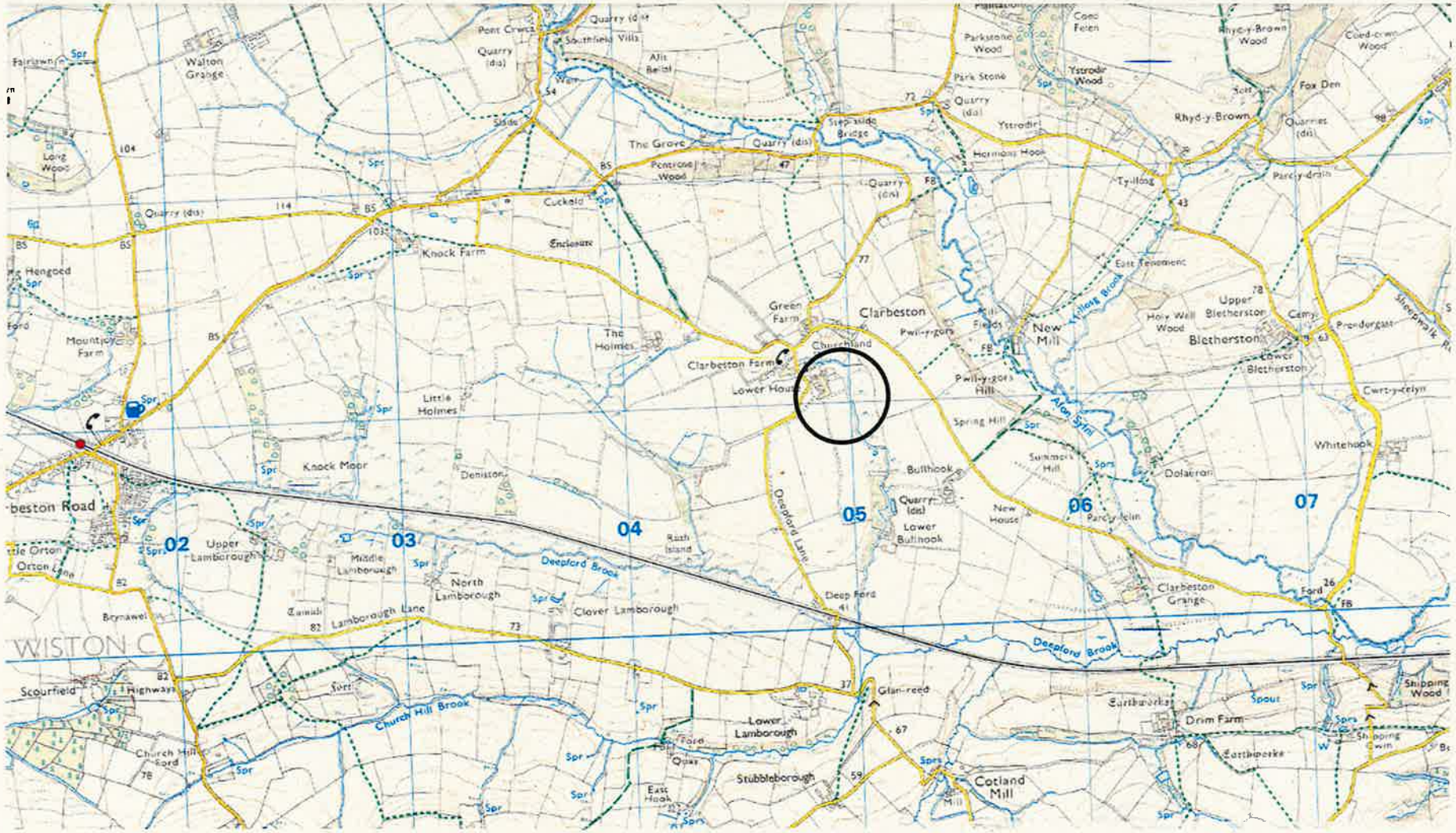
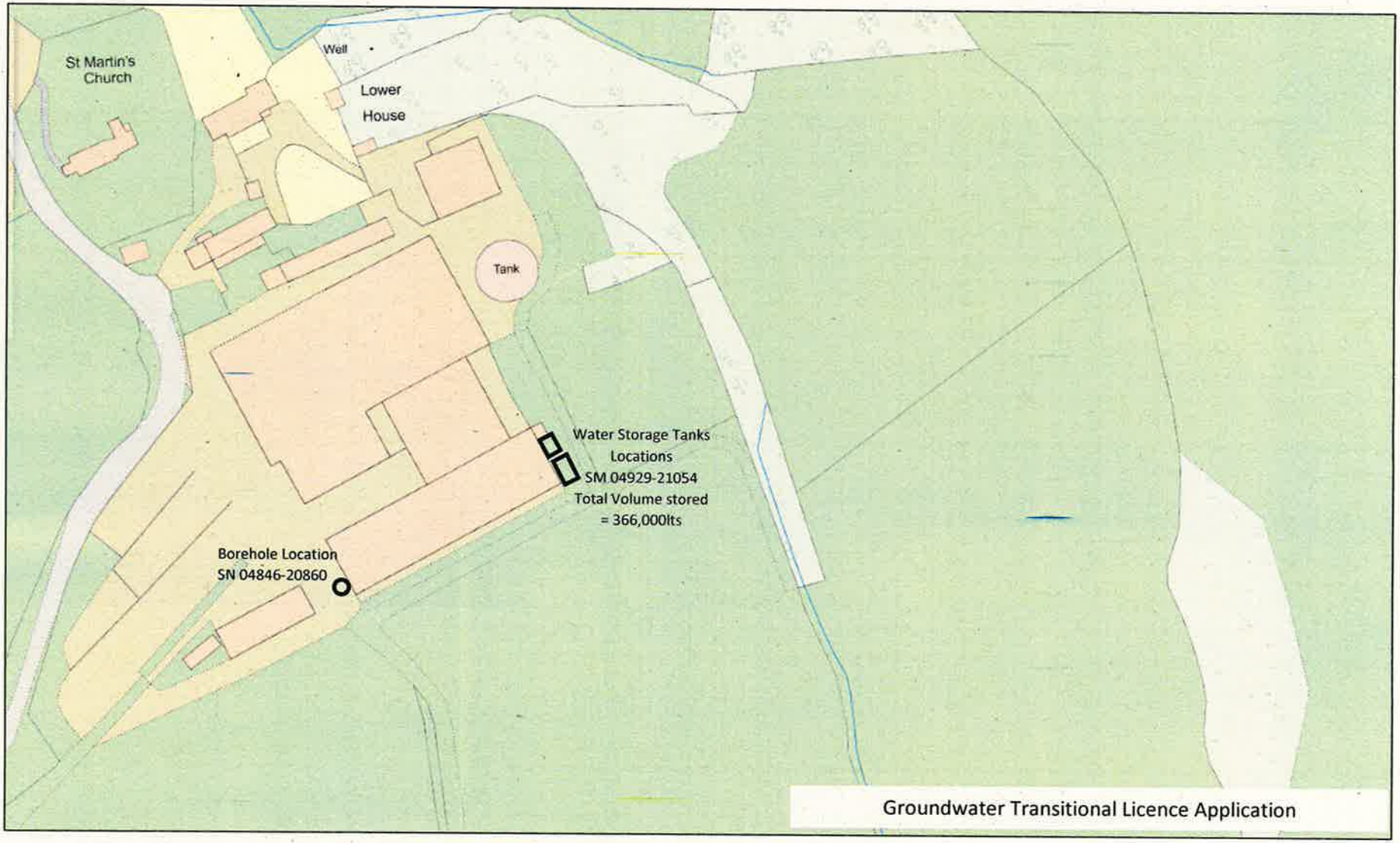
Graddfa Fras / Approx. Scale 1:5,000
Dyddiad Creu / Date Created: 09/02/2013

Doc3 Farm Location Map



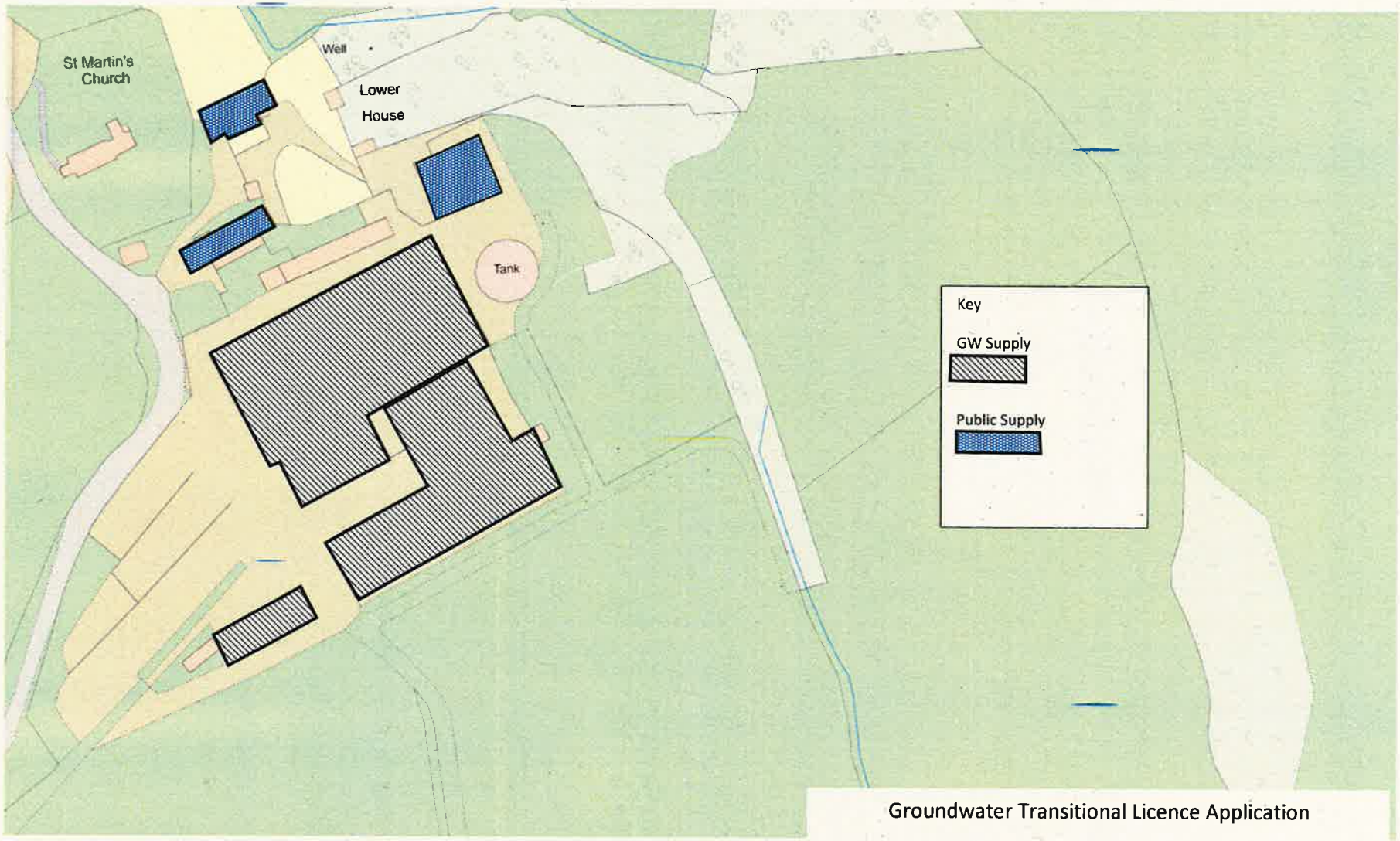
Document 4 Lower House Farm: Groundwater Borehole and Water Storage Tanks Location



Doc5 - Photographic Evidence Borehole Chambers

GW Abstraction point Lower House Farm

Doc6 Lower House West Farm: Borehole/Public Mains Distribution Plan



Groundwater Transitional Licence Application

Doc7 Groundwater Pump Specifications DAB S4C-19

S4

SAND RESISTANT

CE

(Control box only for single-phase version)

GENERAL DATA

Applications

Submerged electric pump for 4" wells or larger, capable of generating a broad range of flow rates and heads. These units have a very extensive range of applications for lifting, distribution and pressurisation in civil and industrial water systems, filling of pressure vessels and tanks, fire-fighting and washing installations, and irrigation systems.

Pump construction features

Multistage centrifugal type with radial or semiaxial impellers. Directly coupled pump and motor with rigid coupling. Technopolymer impellers with stainless steel wear parts, functioning on floating clearance rings made of synthetic low abrasion material with technopolymer diffusers that impart significant wear resistance to the pump. Pump liner, shaft and coupling, filter and cable cover in stainless steel.
Base support and head in microcast AISI 304 stainless steel with steel check valve incorporated in head. The pumps comply with European Council Directives.

Motor construction characteristics

Submerged asynchronous two-pole motor made of AISI 304 stainless steel. For the parts in contact with the water. Squirrel cage rotor mounted on self-centring thrust block designed to withstand significant axial loads. Cooling of the thrust bearing and the bushings is provided by water, thereby eliminating the risk of oil contamination. Canned-type stator in an airtight casing made of stainless steel AISI 304L.

Flanging to NEMA – 4"
Protection rating IP68
Heat insulation class: F
Input voltage single phase 220-230 V / 50Hz
three-phase 400 V / 50Hz

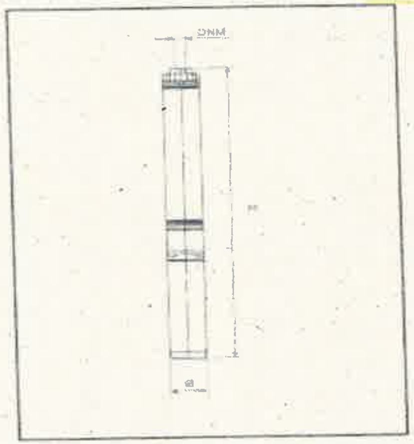
Supply

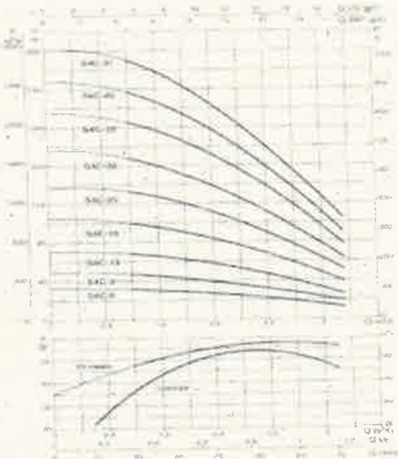
Control box (for single phase version) and motor must be ordered separately

The performance curves are based on kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Tolerance of curves to ISO 9906

S4C

Liquid temperature range: from 0°C to +40°C





MODEL	Ø mm	HEIGHT M single phase	HEIGHT T three phase	DNM	PACK DIMENSIONS L/A	PACK DIMENSIONS L/B	PACK DIMENSIONS H	VOLUME m³	GROSS WEIGHT Kg M single phase	GROSS WEIGHT Kg T three phase
S4C-6 M / S4C-6 T	97	624	585	1" 1/4 G	110	110	720	0.010	11.8	11.5
S4C-9 M / S4C-9 T	97	741	713	1" 1/4 G	118.5	110	820	0.011	14.6	12.7
S4C-13 M / S4C-13 T	97	891	871	1" 1/4 G	110	110	1000	0.013	15.5	15.4
S4C-19 M / S4C-19 T	97	1165	1096	1" 1/4 G	122	120	1240	0.018	18.5	17.6
S4C-25 M / S4C-25 T	97	1419	1343	1" 1/4 G	105	120	1500	0.022	25.2	20.5
S4C-32 M / S4C-32 T	97	1662	1648	1" 1/4 G	106	120	1820	0.026	28.2	23.7
S4C-39 M / S4C-39 T	97	1890	1875	1" 1/4 G	120	120	2088	0.030	33.8	25.2
S4C-45 T	97		2237	1" 1/4 G	120	120	2800	0.038		34
S4C-51 T	97		[illegible]	1" 1/4 G	128	120	2600	0.038		32.8

MODEL	ELECTRICAL DATA POWER SUPPLY 50 Hz	P2 NOMINAL kW	P2 NOMINAL HP	HYDRAULIC DATA Q m³/h / l/min	0 / 0	1.2 / 20	1.5 / 25	1.8 / 30	2.1 / 35	2.4 / 40	3 / 50	3.6 / 60	4.2 / 70
S4C-6 M	1x230 V	0.37	0.5	H m	33	31.8	30.7	29.4	27.5	25.4	22.7	18.5	13.5
S4C-6 T	3x400 V	0.37	0.5		33	31.8	30.7	29.4	27.5	25.4	22.7	18.5	13.2
S4C-9 M	1x230 V	0.55	0.75		49.5	47.7	46	44	41.5	38.5	34	27.7	19.8
S4C-9 T	3x400 V	0.55	0.75		49.5	47.7	46	44	41.5	38.5	34	27.7	19.8
S4C-12 M	1x230 V	0.75	1		71.5	68.9	66.4	63.7	59.9	55.2	49.1	40	28.6
S4C-13 T	3x400 V	0.75	1		71.5	68.9	66.4	63.7	59.9	55.2	49.1	40	28.6
S4C-19 M	1x230 V	1.1	1.5		104.5	100.7	97	93	87.6	80.8	71.8	58.5	41.8
S4C-19 T	3x400 V	1.1	1.5		104.5	100.7	97	93	87.6	80.8	71.8	58.5	41.8
S4C-25 M	1x230 V	1.5	2		137.5	132.5	128	122.5	115	110	94.5	77	55
S4C-25 T	3x400 V	1.5	2		137.5	132.5	128	122.5	115	110	94.5	77	55
S4C-32 M	1x230 V	2.2	3		176	169.6	163	156.8	148	140.8	120.9	98.6	70.4
S4C-37 T	3x400 V	2.2	3		176	169.6	163	156.8	148	140.8	120.9	98.6	70.4
S4C-39 M	1x230 V	2.2	3		214.5	206.7	200	191.1	181.9	171.6	147.4	120.1	85.8
S4C-39 T	3x400 V	2.2	3		214.5	206.7	200	191.1	181.9	171.6	147.4	120.1	85.8
S4C-45 T	3x400 V	3	4		247.5	238.5	229	220.5	219	198	170.1	138.6	99
S4C-51 T	3x400 V	3	4		280.5	270.3	261	250	232	224.4	192.8	157.1	112.2

Doc8 Livestock numbers and water volume used 2011-2017 Lower House

2011 water consumptio	livestock no		daily consum	monthly con	annual const	flow rate litre per hour	flow rate litres per second	pump time for drinking water (seconds)	pump time for drinking water (hours)	pump time for parlour washings (seconds)	pump time for parlour washings (hours)
dairy cows in milk	100	220	22000	660000	7920000	3000	0.8	32196.0	8.9	7920	2.2
cow with calf	50	0	0	0	0						
heifers 24 month	50	55	2750	82500	990000						
<12 month	36	55	1980	59400	712800						
Bull	100	1	100	3000	36000						
total livestock water use			26830	804900	9658800						
parlour washings	30	220	6600	198000	2376000						

2012 water consumptio	livestock no		daily consum	monthly con	annual const	flow rate litre per hour	flow rate litres per second	pump time for drinking water (seconds)	pump time for drinking water (hours)	pump time for parlour washings (seconds)	pump time for parlour washings (hours)
dairy cows in milk	100	225	22500	675000	8100000	3000	0.8	32796	9.1	8100	2.3
cow with calf	50	0	0	0	0						
heifers 24 month	50	55	2750	82500	990000						
<12 month	36	55	1980	59400	712800						
Bull	100	1	100	3000	36000						
total livestock water use			27330	819900	9838800						
parlour washings	30	225	6750	202500	2430000						

2013 water consumptio	livestock no		daily consum	monthly con	annual const	flow rate litre per hour	flow rate litres per second	pump time for drinking water (seconds)	pump time for drinking water (hours)	pump time for parlour washings (seconds)	pump time for parlour washings (hours)
dairy cows in milk	100	230	23000	690000	8280000	3000	0.8	33396	9.3	8280	2.3
cow with calf	50	0	0	0	0						
heifers 24 month	50	55	2750	82500	990000						
<12 month	36	55	1980	59400	712800						
Bull	100	1	100	3000	36000						
total livestock water use			27830	834900	10018800						
parlour washings	30	230	6900	207000	2484000						

2014 water consumptio	livestock no		daily consum	monthly con	annual const	flow rate litre per hour	flow rate litres per second	pump time for drinking water (seconds)	pump time for drinking water (hours)	pump time for parlour washings (seconds)	pump time for parlour washings (hours)
dairy cows in milk	100	235	23500	705000	8460000	3000	0.8	34512	9.6	8460	2.4
cow with calf	50	0	0	0	0						
heifers 24 month	50	60	3000	90000	1080000						
<12 month	36	60	2160	64800	777600						
Bull	100	1	100	3000	36000						
total livestock water use			28760	862800	10353600						
parlour washings	30	235	7050	211500	2538000						

2015 water consumptio	livestock no		daily consum	monthly con	annual const	flow rate litre per hour	flow rate litres per second	pump time for drinking water (seconds)	pump time for drinking water (hours)	pump time for parlour washings (seconds)	pump time for parlour washings (hours)
dairy cows in milk	100	240	24000	720000	8640000	3000	0.8	35112	9.8	8640	2.4
cow with calf	50	0	0	0	0						
heifers 24 month	50	60	3000	90000	1080000						
<12 month	36	60	2160	64800	777600						
Bull	100	1	100	3000	36000						
total livestock water use			29260	877800	10533600						
parlour washings	30	240	7200	216000	2592000						

2016 water consumptio	livestock no		daily consum	monthly con	annual const	flow rate litre per hour	flow rate litres per second	pump time for drinking water (seconds)	pump time for drinking water (hours)	pump time for parlour washings (seconds)	pump time for parlour washings (hours)
dairy cows in milk	100	245	24500	735000	8820000	3000	0.8	36228	10.1	8820	2.5
cow with calf	50	0	0	0	0						
heifers 24 month	50	65	3250	97500	1170000						
<12 month	36	65	2340	70200	842400						
Bull	100	1	100	3000	36000						
total livestock water use			30190	905700	10868400						
parlour washings	30	245	7350	220500	2646000						

2017 water consumptio	livestock no		daily consum	monthly con	annual const	flow rate litre per hour	flow rate litres per second	pump time for drinking water (seconds)	pump time for drinking water (hours)	pump time for parlour washings (seconds)	pump time for parlour washings (hours)
dairy cows in milk	100	250	25000	750000	9000000	3000	0.8	44508	12.4	9000	2.5
cow with calf	50	0	0	0	0						
heifers 24 month	50	65	3250	97500	1170000						
<12 month	36	65	2340	70200	842400						
Bull	100	65	6500	195000	2340000						
total livestock water use			37090	1112700	13352400						
parlour washings	30	250	7500	225000	2700000						

British Cattle Records Registration from BCMS

Herd Register

12/11/2019 11:38 Page: 1

14001 N G & A L LLEWELLIN

From 01/01/2017 to 31/01/2017

From 01/01/2017 to 01/01/2017

428 record(s)

Management ID	Ear tag	Date of birth	Breed	Sex	Genetic dam
6	[illegible]	27/07/2008	HF	Fe Br	[illegible]
10	[illegible]	30/07/2008	HF	Fe Br	[illegible]
18	[illegible]	02/09/2008	HF	Fe Br	[illegible]
23	[illegible]	08/09/2008	HF	Fe Br	[illegible]
29	[illegible]	23/09/2008	HF	Fe Br	[illegible]
39	[illegible]	11/09/2008	HF	Fe Br	[illegible]
42	[illegible]	01/10/2008	HF	Fe Br	[illegible]
43	[illegible]	11/10/2008	HF	Fe Br	[illegible]
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70	[illegible]	[illegible]	HF	Fe Br	[illegible]
72	[illegible]	[illegible]	HO	Fe Br	[illegible]
93	[illegible]	24/06/2010	HF	Fe Br	[illegible]
103	[illegible]	04/07/2009	HF	Fe Br	[illegible]
105	[illegible]	16/07/2009	JE	Fe Br	[illegible]
107	[illegible]	25/07/2009	HF	Fe Br	[illegible]
113	[illegible]	02/08/2009	HF	Fe Br	[illegible]
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136	[illegible]	04/09/2009	HF	Fe Br	[illegible]
146	[illegible]	28/09/2009	HF	Fe Br	[illegible]
152	[illegible]	01/11/2009	HF	Fe Br	[illegible]
170	[illegible]	17/03/2010	HF	Fe Br	[illegible]
172	[illegible]	18/04/2010	HF	Fe Br	[illegible]
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213	[illegible]	08/08/2010	HF	Fe Br	[illegible]
216	[illegible]	11/08/2010	HF	Fe Br	[illegible]
221	[illegible]	26/08/2010	HF	Fe Br	[illegible]
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233	[illegible]	17/09/2010	JE	Fe Br	[illegible]
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309	[illegible]	18/08/2011	HF	Fe Br	[illegible]
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323	[illegible]	22/09/2011	HF	Fe Br	[illegible]
324	[illegible]	26/09/2011	HF	Fe Br	[illegible]

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Management ID	Ear tag	Date of birth	Breed	Sex	Genetic dam
326	UK745534401702	13/10/2011	HF	Fe Br	UK745534501325 127
328	UK745534401709	20/10/2011	HF	Fe Br	UK745534701140 15
329	UK745534601711	20/10/2011	JE	Fe Br	UK745899400079 790
330	UK745534401723	02/11/2011	HF	Fe Br	UK745534501380 362
331	UK745534301729	08/11/2011	HF	Fe Br	UK745534500275 400
332	UK745534401730	09/11/2011	HF	Fe Br	UK745534201393 162
335	UK745534501745	24/11/2011	HF	Fe Br	UK745534701313 117
337	UK745534101748	29/11/2011	HF	Fe Br	UK745534101068 984
339	UK745534301750	30/11/2011	HF	Fe Br	UK745889100867 363
340	UK745534501752	09/12/2011	HF	Fe Br	UK322755401596 175
343	UK745534401765	27/12/2011	HF	Fe Br	UK745534400846 362
345	UK745534201770	14/01/2012	HF	Fe Br	UK745534600857 814
346	UK745534501773	21/01/2012	HF	Fe Br	UK745534100836 894
347	UK745534301778	02/02/2012	HF	Fe Br	UK745889400966 942
348	UK745534401779	08/02/2012	HF	Fe Br	UK745534001147 17
349	UK745534501785	12/02/2012	HF	Fe Br	UK745534200734 734
350	UK745534701782	16/02/2012	HF	Fe Br	UK745534201328 522
351	UK745534101783	19/02/2012	HF	Fe Br	UK745289701813 87
353	UK745534501787	24/02/2012	HF	Fe Br	UK745534801130 2
354	UK745534601788	25/02/2012	HF	Fe Br	UK745534400834 893
355	UK745534201791	11/03/2012	HF	Fe Br	UK745889201888 61
356	UK745534701796	02/04/2012	HF	Fe Br	UK745534400809 822
357	UK745534101797	03/04/2012	HF	Fe Br	UK745534001571 906
358	UK745534301799	08/04/2012	JE	Fe Br	UK745889601480 971
360	UK745534701803	18/04/2012	HF	Fe Br	UK745889601770 84
361	UK161064400830	12/06/2012	HO	Fe Br	UK081533500352 UK387
362	UK231852700625	12/06/2011	HO	Fe Br	UK221852300653 UK201
372	UK745534200209	27/11/2001	HF	Fe Br	UK[illegible] 890
401	UK745534601809	04/07/2012	HF	Fe Br	UK364813821118 73
402	UK745534101811	05/07/2012	HF	Fe Br	UK745534701187 42
404	UK745534401814	12/07/2012	HF	Fe Br	UK745534501192 43
405	UK745534601816	14/07/2012	HF	Fe Br	UK745889601528 508
406	UK745534101818	17/07/2012	JE	Fe Br	UK745782730087 795
408	UK745534301820	18/07/2012	HF	Fe Br	UK[illegible] 815
412	UK745534101826	24/07/2012	HF	Fe Br	UK300562180715 59
413	UK745534201827	25/07/2012	HF	Fe Br	UK745534701152 23
416	UK745534401835	03/08/2012	HF	Fe Br	UK745534201224 82
417	UK745534601837	05/08/2012	HF	Fe Br	UK745534401440 172
419	UK745534101839	07/08/2012	HO	Fe Br	UK745534701480 230
420	UK745534501843	09/08/2012	HF	Fe Br	UK745534701173 76
422	UK745534101846	17/08/2012	HF	Fe Br	UK745889801356 376
425	UK745534701852	22/08/2012	HF	Fe Br	UK302957730832 35
426	UK745534101853	22/08/2012	HF	Fe Br	UK302957730832 35
427	UK745534701858	27/08/2012	HF	Fe Br	UK745889101429 479
428	UK745534201867	29/08/2012	HF	Fe Br	UK745534600730 722
429	UK745534301862	28/08/2012	HF	Fe Br	UK745534400414 530
431	UK745534601865	30/08/2012	HF	Fe Br	UK745889701414 52
435	UK745534301876	13/09/2012	HF	Fe Br	UK745534101214 118
436	UK745534501878	18/09/2012	HF	Fe Br	UK721182400314 905
439	UK745534201882	20/09/2012	HF	Fe Br	UK745534501318 123
440	UK745534301883	28/09/2012	HF	Fe Br	UK745889302516 506
442	UK745534701901	09/10/2012	HF	Fe Br	UK745534201448 171
444	UK745534201910	20/10/2012	HF	Fe Br	UK745534401312 138
451	UK745534301932	23/11/2012	HF	Fe Br	UK745534101952 241
453	UK745534101937	27/11/2012	HF	Fe Br	UK745889100178 553
454	UK745534501941	13/12/2012	HF	Fe Br	UK745534101236 54
455	UK745534701943	15/12/2012	HF	Fe Br	UK745534100836 854
456	UK745534501946	21/12/2012	HF	Fe Br	UK745534401438 151
458	UK745534301953	08/01/2013	HF	Fe Br	UK745889100867 363
460	UK745534501962	21/01/2013	HF	Fe Br	UK745534501311 112
461	UK745534401968	07/02/2013	HF	Fe Br	UK745534501380 362
462	UK745534501969	10/02/2013	HF	Fe Br	UK745534201393 136
463	UK745534801970	13/02/2013	HF	Fe Br	UK745534101531 231
464	UK745534101972	16/02/2013	HF	Fe Br	UK745889400968 642
500	UK745534201973	11/04/2013	HF	Fe Br	UK745534101008 985
502	UK745534401975	03/06/2013	HF	Fe Br	UK302740600552 50
503	UK745534601976	05/06/2013	HF	Fe Br	UK745534200566 518
504	UK745534601977	05/06/2013	HF	Fe Br	UK745534200566 518
505	UK745534701978	06/06/2013	HF	Fe Br	UK745534400721 708
506	UK745534501990	15/06/2013	HF	Fe Br	UK745534301071 956
507	UK745534601991	17/06/2013	HF	Fe Br	UK745534701187 42
508	UK745534201994	21/06/2013	HF	Fe Br	UK745534501764 25
510	UK745534102000	02/07/2013	HF	Fe Br	UK745534501345 533
511	UK745534402003	07/07/2013	HF	Fe Br	UK745534801613 269
512	UK745534502004	07/07/20	HF	Fe Br	UK745534601513 269
513	UK745534102007	11/07/20	HF	Fe Br	UK745534701347 930

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Management ID	Ear tag	Date of birth	Breed	Sex	Genetic dam
514	[illegible]	12/07/2013	HF	Fe Br	[illegible]
517	[illegible]	20/07/2013	HF	Fe Br	[illegible]
518	[illegible]	21/07/2013	HF	Fe Br	[illegible]
519	[illegible]	28/07/2013	HF	Fe Br	[illegible]
520	[illegible]	02/08/2013	HF	Fe Br	[illegible]
521	[illegible]	05/08/2013	HF	Fe Br	[illegible]
522	[illegible]	11/08/2013	HF	Fe Br	[illegible]
523	[illegible]	16/08/2013	HF	Fe Br	[illegible]
524	[illegible]	23/08/2013	HF	Fe Br	[illegible]
525	[illegible]	23/08/2013	HF	Fe Br	[illegible]
526	[illegible]	28/08/2013	HF	Fe Br	[illegible]
528	[illegible]	05/09/2013	HF	Fe Br	[illegible]
529	[illegible]	10/09/2013	HF	Fe Br	[illegible]
531	[illegible]	20/09/2013	HF	Fe Br	[illegible]
532	[illegible]	27/09/2013	HF	Fe Br	[illegible]
533	[illegible]	29/09/2013	HF	Fe Br	[illegible]
534	[illegible]	29/09/2013	HF	Fe Br	[illegible]
535	[illegible]	03/10/2013	JE	Fe Br	[illegible]
536	[illegible]	05/10/2013	HF	Fe Br	[illegible]
537	[illegible]	07/10/2013	HF	Fe Br	[illegible]
538	[illegible]	16/10/2013	HF	Fe Br	[illegible]
539	[illegible]	16/10/2013	HF	Fe Br	[illegible]
541	[illegible]	19/10/2013	HF	Fe Br	[illegible]
543	[illegible]	25/10/2013	HF	Fe Br	[illegible]
544	[illegible]	25/10/2013	HF	Fe Br	[illegible]
545	[illegible]	27/10/2013	HF	Fe Br	[illegible]
546	[illegible]	02/11/2013	HF	Fe Br	[illegible]
547	[illegible]	08/11/2013	HF	Fe Br	[illegible]
548	[illegible]	10/11/2013	HF	Fe Br	[illegible]
550	[illegible]	15/11/2013	HF	Fe Br	[illegible]
552	[illegible]	22/11/2013	HF	Fe Br	[illegible]
554	[illegible]	24/11/2013	HF	Fe Br	[illegible]
555	[illegible]	11/12/2013	HF	Fe Br	[illegible]
556	[illegible]	18/12/2013	HF	Fe Br	[illegible]
557	[illegible]	30/12/2013	HF	Fe Br	[illegible]
558	[illegible]	[illegible]/01/2014	HF	Fe Br	[illegible]
559	[illegible]	19/01/2014	HF	Fe Br	[illegible]
560	[illegible]	[illegible]/10/2013	HO	Fe Br	[illegible]
561	[illegible]	10/01/2014	[illegible]	Fe Br	[illegible]
[illegible]	[illegible]	06/06/2014	HF	Fe Br	[illegible]
[illegible]	[illegible]	21/06/2014	HF	Fe Br	[illegible]
603	[illegible]	21/06/2014	HF	Fe Br	[illegible]
604	[illegible]	22/06/2014	HF	Fe Br	[illegible]
605	[illegible]	25/06/2014	HF	Fe Br	[illegible]
606	[illegible]	27/06/2014	HF	Fe Br	[illegible]
607	[illegible]	30/06/2014	HF	Fe Br	[illegible]
608	[illegible]	30/06/2014	HF	Fe Br	[illegible]
609	[illegible]	01/07/2014	HF	Fe Br	[illegible]
611	[illegible]	02/07/2014	HF	Fe Br	[illegible]
613	[illegible]	05/07/2014	HF	Fe Br	[illegible]
614	[illegible]	[illegible]/07/2014	HF	Fe Br	[illegible]
615	[illegible]	09/07/2014	HF	Fe Br	[illegible]
616	[illegible]	14/07/2014	HF	Fe Br	[illegible]
617	[illegible]	14/07/2014	HF	Fe Br	[illegible]
619	[illegible]	14/07/2014	HF	Fe Br	[illegible]
620	[illegible]	19/07/2014	HF	Fe Br	[illegible]
621	[illegible]	20/07/2014	HF	Fe Br	[illegible]
622	[illegible]	23/07/2014	HF	Fe Br	[illegible]
623	[illegible]	25/07/2014	HF	Fe Br	[illegible]
624	[illegible]	25/07/2014	HF	Fe Br	[illegible]
625	[illegible]	27/07/2014	HF	Fe Br	[illegible]
627	[illegible]	28/07/2014	HF	Fe Br	[illegible]
628	[illegible]	31/07/2014	HF	Fe Br	[illegible]
629	[illegible]	04/08/2014	HF	Fe Br	[illegible]
630	[illegible]	04/08/2014	HF	Fe Br	[illegible]
631	[illegible]	05/08/2014	HF	Fe Br	[illegible]
632	[illegible]	12/08/2014	HF	Fe Br	[illegible]
633	[illegible]	12/08/2014	HF	Fe Br	[illegible]
634	[illegible]	21/08/2014	HF	Fe Br	[illegible]
635	[illegible]	13/08/2014	HF	Fe Br	[illegible]
636	[illegible]	14/08/2014	HF	Fe Br	[illegible]
637	[illegible]	16/08/2014	HF	Fe Br	[illegible]
638	[illegible]	21/08/2014	HF	Fe Br	[illegible]
640	[illegible]	26/08/2014	HF	Fe Br	[illegible]
641	[illegible]	27/08/2014	JE	Fe Br	[illegible]
644	[illegible]	28/08/2014	JE	Fe Br	[illegible]

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Management ID	Ear tag	Date of birth	Breed	Sex	Genetic dam
645	[illegible]	31/08/2014	HF	Fe Br	[illegible]
646	[illegible]	[illegible]/08/2014	HF	Fe Br	[illegible]
647	[illegible]	09/09/2014	HF	Fe Br	[illegible]
648	[illegible]	11/09/2014	HF	Fe Br	[illegible]
649	[illegible]	12/09/2014	HF	Fe Br	[illegible]
650	[illegible]	13/09/2014	HF	Fe Br	[illegible]
651	[illegible]	[illegible]/09/2014	HF	Fe Br	[illegible]
652	[illegible]	[illegible]/09/2014	HF	Fe Br	[illegible]
654	[illegible]	23/09/2014	JE	Fe Br	[illegible]
655	[illegible]	24/09/2014	HF	Fe Br	[illegible]
656	[illegible]	25/09/2014	HF	Fe Br	[illegible]
657	[illegible]	25/09/2014	HF	Fe Br	[illegible]
658	[illegible]	01/10/2014	HF	Fe Br	[illegible]
659	[illegible]	08/10/2014	HF	Fe Br	[illegible]
660	[illegible]	15/10/2014	HF	Fe Br	[illegible]
661	[illegible]	17/10/2014	HF	Fe Br	[illegible]
662	[illegible]	18/10/2014	HF	Fe Br	[illegible]
663	[illegible]	23/10/2014	HF	Fe Br	[illegible]
666	[illegible]	24/10/2014	HF	Fe Br	[illegible]
667	[illegible]	26/10/2014	HO	Fe Br	[illegible]
668	[illegible]	28/10/2014	HF	Fe Br	[illegible]
670	[illegible]	30/10/2014	HF	Fe Br	[illegible]
673	[illegible]	19/11/2014	HF	Fe Br	[illegible]
674	[illegible]	23/11/2014	HF	Fe Br	[illegible]
675	[illegible]	26/11/2014	HF	Fe Br	[illegible]
679	[illegible]	09/12/2014	HF	Fe Br	[illegible]
680	[illegible]	13/12/2014	HF	Fe Br	[illegible]
681	[illegible]	29/12/2014	HO	Fe Br	[illegible]
700	[illegible]	17/03/2015	HO	Fe Br	[illegible]
701	[illegible]	20/06/2015	HF	Fe Br	[illegible]
702	[illegible]	25/06/2015	JE	Fe Br	[illegible]
703	[illegible]	25/06/2015	HF	Fe Br	[illegible]
704	[illegible]	04/07/2015	HF	Fe Br	[illegible]
705	[illegible]	[illegible]/07/2015	HF	Fe Br	[illegible]
706	[illegible]	09/07/2015	HF	Fe Br	[illegible]
707	[illegible]	09/07/2015	HF	Fe Br	[illegible]
708	[illegible]	12/07/2015	HF	Fe Br	[illegible]
709	[illegible]	12/07/2015	HF	Fe Br	[illegible]
710	[illegible]	14/07/2015	HF	Fe Br	[illegible]
711	[illegible]	15/07/2015	HF	Fe Br	[illegible]
712	[illegible]	15/07/2015	HF	Fe Br	[illegible]
713	[illegible]	17/07/2015	HF	Fe Br	[illegible]
714	[illegible]	24/07/2015	HF	Fe Br	[illegible]
716	[illegible]	27/07/2015	HF	Fe Br	[illegible]
717	[illegible]	28/07/2015	HF	Fe Br	[illegible]
718	[illegible]	28/07/2015	HF	Fe Br	[illegible]
719	[illegible]	29/07/2015	HF	Fe Br	[illegible]
720	[illegible]	30/07/2015	HF	Fe Br	[illegible]
721	[illegible]	31/07/2015	HF	Fe Br	[illegible]
722	[illegible]	02/08/2015	HF	Fe Br	[illegible]
723	[illegible]	04/08/2015	HF	Fe Br	[illegible]
724	[illegible]	05/08/2015	HF	Fe Br	[illegible]
725	[illegible]	05/08/2015	HF	Fe Br	[illegible]
726	[illegible]	[illegible]/08/2015	HF	Fe Br	[illegible]
727	[illegible]	[illegible]/08/2015	HF	Fe Br	[illegible]
728	[illegible]	[illegible]/08/2015	HF	Fe Br	[illegible]
729	[illegible]	[illegible]/08/2015	HF	Fe Br	[illegible]
730	[illegible]	[illegible]/08/2015	HF	Fe Br	[illegible]
731	[illegible]	[illegible]/08/2015	HF	Fe Br	[illegible]
732	[illegible]	12/08/2015	HF	Fe Br	[illegible]
733	[illegible]	15/08/2015	HF	Fe Br	[illegible]
734	[illegible]	17/08/2015	HF	Fe Br	[illegible]
735	[illegible]	19/08/2015	HF	Fe Br	[illegible]
736	[illegible]	23/08/2015	JE	Fe Br	[illegible]
737	[illegible]	23/08/2015	JE	Fe Br	[illegible]
738	[illegible]	23/08/2015	HF	Fe Br	[illegible]
739	[illegible]	29/08/2015	HF	Fe Br	[illegible]
740	[illegible]	04/09/2015	HF	Fe Br	[illegible]
741	[illegible]	05/09/2015	HF	Fe Br	[illegible]
742	[illegible]	06/09/2015	HF	Fe Br	[illegible]
743	[illegible]	10/09/2015	HF	Fe Br	[illegible]
744	[illegible]	10/09/2015	HF	Fe Br	[illegible]
745	[illegible]	16/09/2015	HF	Fe Br	[illegible]
746	[illegible]	17/09/2015	JE	Fe Br	[illegible]
747	[illegible]	20/09/2015	HF	Fe Br	[illegible]
748	[illegible]	22/09/2015	HF	Fe Br	[illegible]

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Management ID	Ear tag	Date of birth	Breed	Sex	Genetic dam
748	UK7455347027475	03/06/2015	HF	Fe Br	UK7441677024654 834
750	UK7455347027676	01/10/2015	HF	Fe Br	UK7455349502587 546
752	UK7455348324679	04/10/2015	HF	Fe Br	UK7455347027614 382
753	UK7455347024869	04/10/2015	HF	Fe Br	UK7455347027852 430
754	UK7455348324865	07/10/2015	HF	Fe Br	UK7455348302015 217
755	UK7455348324876	07/10/2015	HF	Fe Br	UK7455348301982 479
756	UK7455348324491	09/10/2015	HF	Fe Br	UK7455347027138 0
757	UK7455348324494	13/10/2015	HF	Fe Br	UK7455349127252 54
758	UK7455348302535	25/10/2015	HF	Fe Br	UK7455349501554 406
759	UK7455348327500	24/11/2015	HF	Fe Br	UK7455348302280 549
760	UK7455348302513	06/11/2015	HF	Fe Br	UK7455348501730 508
761	UK7455348327514	09/11/2015	JE	Fe Br	UK7455348501719 525
762	UK7455348302520	14/11/2015	HO	Fe Br	UK7455348501727 256
763	UK7455347027521	15/11/2015	HF	Fe Br	UK7455349127277 577
764	UK7455348302525	19/11/2015	HF	Fe Br	UK7455347027139 538
765	UK7455348302530	20/11/2015	HF	Fe Br	UK7455347027264 547
766	UK7455347027531	20/11/2015	HF	Fe Br	UK7455348302558 537
767	UK7455348302534	22/11/2015	HF	Fe Br	UK7455348501154 [illegible]
768	UK7455348302535	23/11/2015	HF	Fe Br	UK7455348501611 [illegible]
769	UK7455348302536	24/11/2015	HF	Fe Br	UK7455348501611 [illegible]
770	UK7455348302537	25/11/2015	HF	Fe Br	UK7455348501611 [illegible]
771	UK7455348302540	29/11/2015	HF	Fe Br	UK7455348501582 247
772	UK7455348302541	02/12/2015	HF	Fe Br	UK7455348502475 [illegible]
773	UK7455348302548	04/12/2015	HF	Fe Br	UK7455348501820 443
774	UK7455348302546	11/12/2015	HF	Fe Br	UK7455348502121 [illegible]
775	UK7455348302548	23/12/2015	HF	Fe Br	UK7455348502774 [illegible]
776	UK7455348302551	29/12/2015	HO	Fe Br	UK7455348501611 [illegible]
777	UK7455348302562	13/08/2015	HF	Fe Br	UK7455348502364 UK103
800	UK7455348302564	15/08/2015	HO	Fe Br	UK7455348502421 UK103
801	UK7455348302565	04/08/2015	HF	Fe Br	UK7455348502421 UK103
802	UK7455348302564	06/08/2015	HO	Fe Br	UK7455348502421 UK103
803	UK7455348302565	08/08/2015	HF	Fe Br	UK7455348502421 UK103
804	UK7455348302566	15/08/2015	HF	Fe Br	UK7455348502421 UK103
805	UK7455348302567	19/08/2015	HF	Fe Br	UK7455348502421 UK103
806	UK7455348302568	20/08/2015	HF	Fe Br	UK7455348502421 UK103
807	UK7455348302569	21/08/2015	HF	Fe Br	UK7455348502421 UK103
808	UK7455348302570	22/08/2015	HF	Fe Br	UK7455348502421 UK103
809	UK7455348302571	23/08/2015	HF	Fe Br	UK7455348502421 UK103
810	UK7455348302572	24/08/2015	HF	Fe Br	UK7455348502421 UK103
811	UK7455348302573	25/08/2015	HF	Fe Br	UK7455348502421 UK103
812	UK7455348302574	26/08/2015	HF	Fe Br	UK7455348502421 UK103
813	UK7455348302575	27/08/2015	HF	Fe Br	UK7455348502421 UK103
814	UK7455348302576	28/08/2015	HF	Fe Br	UK7455348502421 UK103
815	UK7455348302577	29/08/2015	HF	Fe Br	UK7455348502421 UK103
816	UK7455348302578	30/08/2015	HF	Fe Br	UK7455348502421 UK103
817	UK7455348302579	31/08/2015	HF	Fe Br	UK7455348502421 UK103
818	UK7455348302580	01/09/2015	HF	Fe Br	UK7455348502421 UK103
819	UK7455348302581	02/09/2015	HF	Fe Br	UK7455348502421 UK103
820	UK7455348302582	03/09/2015	HF	Fe Br	UK7455348502421 UK103
821	UK7455348302583	04/09/2015	HF	Fe Br	UK7455348502421 UK103
822	UK7455348302584	05/09/2015	HF	Fe Br	UK7455348502421 UK103
823	UK7455348302585	06/09/2015	HF	Fe Br	UK7455348502421 UK103
824	UK7455348302586	07/09/2015	HF	Fe Br	UK7455348502421 UK103
825	UK7455348302587	08/09/2015	HF	Fe Br	UK7455348502421 UK103
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854	UK7455348302616	07/10/2015	HF	Fe Br	UK7455348502421 UK103
855	UK7455348302617	08/10/2015	HF	Fe Br	UK7455348502421 UK103

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Management ID	Ear tag	Date of birth	Breed	Sex	Genetic dam
856	UK745534302695	08/09/2016	HF	Fe Br	UK745534702286 660
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