

MANURE MANAGEMENT PLAN



- DEVELOPMENT:** Erection of an Organic Free Range Egg Production Unit including silos and associated works
- LOCATION:** Rhosddu Farm
Crymych
Pembrokshire
SA41 3RB
- CLIENT:** J Thorne & Son

Roger Parry & Partners LLP
The Estates Office, 20 Salop Road, Oswestry, Shropshire, SY11 2NU
Tel: 01691655334 Fax: 01691 657798
Email: richard@rogerparry.net

*Also at: 1 Berriew Street, Welshpool, Powys, SY21 7SQ
Tel: 01938 554499 Fax: 01938 554462
email: welshpool@rogerparry.net*

*Also at: Hogstow Hall, Minsterley, Shrewsbury, SY5 0HZ
Tel: 01743 791336 Fax: 01743 792770
email: mail@rogerparry.net*

October 2021

MANURE MANAGEMENT PLAN

This manure management plan has been prepared to accompany the planning application of the farming business J Thorne & Son for the erection of a 6,000 organic free range unit.

The Water Code states that, to reduce leaching losses from manures, you should not apply more than 250kg per ha of total nitrogen in organic manures in any 12 months. However, these are guideline levels only and if a FACTS trained advisor can show that the crop requirements are higher the rates can be increased. The farm is not within a Nitrate Vulnerable Zone.

The farm land of J Thorne & Son extends to 226.42 acres of owner occupied land in total. Some areas are not suitable for the application of manure. Approximately 177.08 acres of spreadable ground is available to apply manure and slurry to all of which is owner occupied, this is subject to land to be excluded to meet the requirements of the relevant regulations.

Proposed Development and Farm Stocking

The proposed development is for the erection of a 6,000 organic free range unit at Rhosddu Farm. Presently there are 672 ewes, 15 rams and 455 lambs.

Land Available & Harvest

We have analysed the NW flood plans for the land available for spreading of manure, and at appendix one of this report are found detailed maps annotating spreading areas.

Annually the farm business makes one cut of silage. Taking a cut of silage off the farm land results in a high requirement for organic manures to restore the nutrients to the ground.

Storage of Manure

All solid manure produced within the poultry unit will be removed every four days and directly spread upon the extensive land available at Rhosddu Farm if the nutrients are required. Manure is removed from the poultry unit in a sheeted trailer.

Manure Application

A manure management plan has been produced at appendix one. In addition to identifying no-spread areas, high risk areas and those areas of the farm that are suitable for applications of manures for most of the year, the plan should also assess the amount of land available to take the manures produced. The map should be colour coded:

Red = no spread areas, e.g. yards; within 10 metres of a watercourse or 50 metres of a borehole, spring or well used for drinking or parlour washings. Or areas not normally used for operational reasons but may be brought into use in the future.

Orange = very high risk. Steeply sloping fields of gradients 1 in 7 to 1 in 5; fields at risk of flooding; sandy or shallow soil over fissured rock; fields where drains have been installed during the past 12 months; poorly drained or waterlogged land; severely compacted soils, etc.

Yellow = moderate risk. Slopes between 1 in 14 to 1 in 8; land sloping towards watercourses; imperfectly drained land.

Hatched dark green = lower risk with caution. This land may have manure applied to it but care must be taken prior to application of manure, that no flood warnings have been raised or that excessive rainfall is forecast within 48 hours of the proposed application.

Green = lower risk. Remainder of land upon which manures are applied and which has not been subsoiled or mole ploughed within the past 12 months.

Table 1 - Total N Calculation

Rhosddu Farm is not located within a Nitrate Vulnerable Zone, however in utilising the Nitrate Vulnerable Zone Wales Farmers Workbook, 2014 Edition the farm figures for nitrogen produce per annum are shown below. These figures are used as the most up to date Nitrogen figures available in Wales. The minimum amount of land needed for spreading slurry and manure is calculated in table 1 and is based upon the housing period of the livestock.

The sheep at Rhosddu Farm are housed for two months of the year. The poultry shall be housed within the unit for the entire year but shall be grazing the land around the poultry unit each day in rotation.

Type of Livestock	Number of Stock	Total N produce by each unit of stock (kg/annum)	Total N produced per annum	Total N produced by type of livestock whilst housed
Sheep	687	12	8,244	1,374
Lambs	455	1.4	637	106
Poultry	6,000	0.55	3,300 (per fourteen month cycle)	2,828.57 (per annum)
TOTAL				4,308.57

Total Land Farmed	91.63 hectares
Total Land Available for Spreading	71.66 hectares
Total Nutrients Available	17,915 kg N
Total Nitrogen produced on Farm	4,308.57 kg N
Difference between Nitrogen	+13,606.43 kg N

There is enough land at Rhosddu Farm for the application of manure to be applied at Rhosddu Farm in line with the Codes of Good Agricultural and Environmental Condition, Cross Compliance Regulations. Good agricultural practice publications advise that a maximum of 250/kg a hectare of total nitrogen is applied to the ground through manures.

Spreadable Area

The total land available for spreading manures is 71.66 hectares. Manure will be spread directly onto this land if nutrients are required and if weather conditions permit. Manure will be stored in the existing manure store on farm, in accordance with SSAFO (Water Resources Act (Control of Pollution) (Silage Slurry and Agricultural Fuel Oil) (Wales) Regulations 2010).

"Dirty" Yards

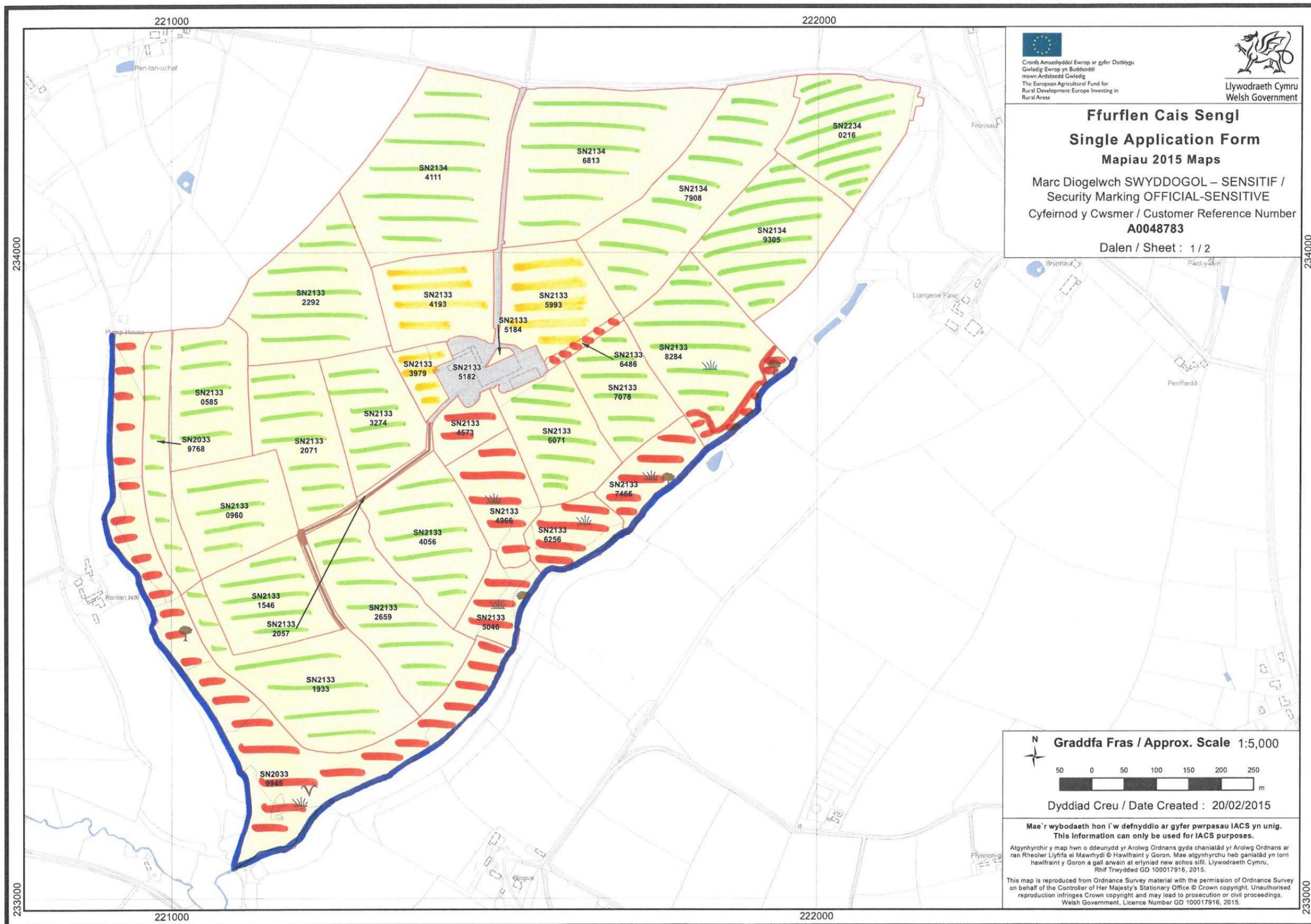
The "dirty" yard areas on the farm will be kept to a minimum. This is due to the manure all being contained in the poultry unit and removed every four days together with the hardcore area to the front of the poultry unit.

Rhosddu Farm will have a dirty water tank installed on the farm. The waste water tank will be built in compliance with the SSAFO standards.

Contingency Plan

In the event that manure cannot be applied to the land, the manure will be stored in an existing manure store.

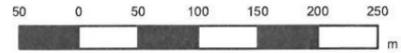
All contaminated wash water will be stored in the dirty water tank upon farm.




 Cronfa Amathyddol Ewrop ar gyfer Datblygu
 Gwledig Ewrop yn Buddsoddi
 mewn Ardaloedd Gwledig
 The European Agricultural Fund for
 Rural Development Europe Investing in
 Rural Areas


 Llywodraeth Cymru
 Welsh Government

Ffurflen Cais Sengl
Single Application Form
Mapiau 2015 Maps
 Marc Diogelwch SWYDDOGOL – SENSITIF /
 Security Marking OFFICIAL-SENSITIVE
 Cyfeirnod y Cwsmer / Customer Reference Number
A0048783
 Dalen / Sheet : 1 / 2

Graddfa Fras / Approx. Scale 1:5,000

 Dyddiad Creu / Date Created : 20/02/2015

Mae'r wybodaeth hon i'w defnyddio ar gyfer pwrpasau IACS yn unig.
 This information can only be used for IACS purposes.
 Atgynhyrchir y map hwn o ddeunydd yr Arolwg Ordnans gyda chaniatâd yr Arolwg Ordnans ar
 ran Rheolwr Llyfrfa ei Mawrhydi © Hawffraint y Goron, Mae atgynhyrchu heb ganiatâd yn torri
 hawffraint y Goron a gall arwain at erlyniad new achos sifff. Llywodraeth Cymru,
 Rhif Twydded GD 100017916, 2015.
 This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey
 on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised
 reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
 Welsh Government, Licence Number GD 100017916, 2015.

222000

223000

236000

235000

222000

223000



Cronfa Amaethyddol Ewrop ar gyfer Datblygu
Gwledig Ewrop yn Buddsoddi
mewn Ardalodd Gwledig
The European Agricultural Fund for
Rural Development: Europe Investing in
Rural Areas

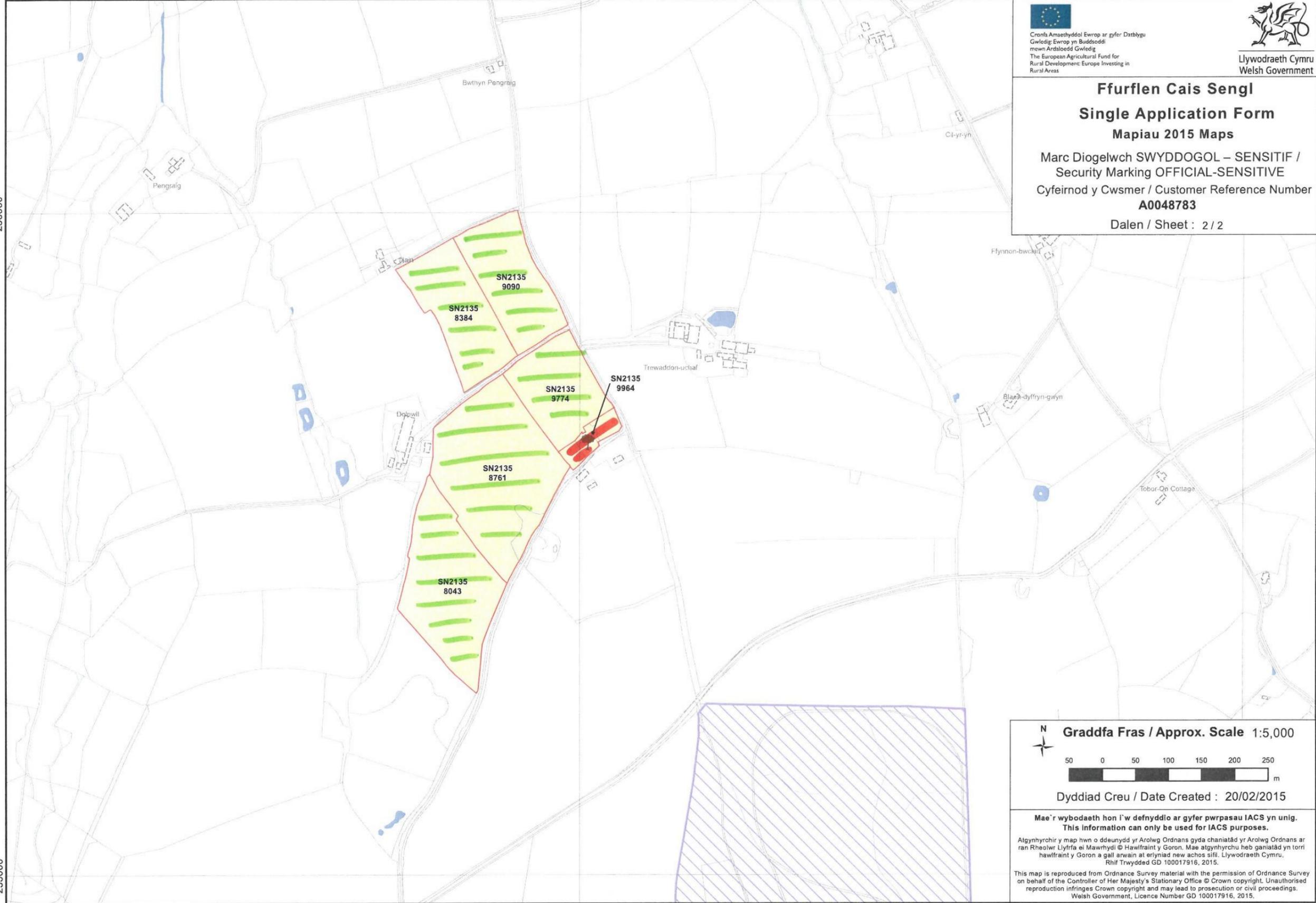


Llywodraeth Cymru
Welsh Government

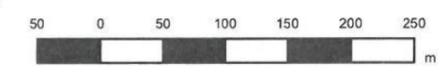
Ffurflen Cais Sengl Single Application Form Mapiau 2015 Maps

Marc Diogelwch SWYDDOGOL – SENSITIF /
Security Marking OFFICIAL-SENSITIVE
Cyfeirnod y Cwsmer / Customer Reference Number
A0048783

Dalen / Sheet : 2 / 2



Graddfa Fras / Approx. Scale 1:5,000



Dyddiad Creu / Date Created : 20/02/2015

**Mae'r wybodaeth hon i'w defnyddio ar gyfer pwrpasau IACS yn unig.
This information can only be used for IACS purposes.**

Atgynhychir y map hwn o ddeunydd yr Arolwg Ordnans gyda chaniatâd yr Arolwg Ordnans ar ran Rheolwr Llyfrfa ei Mawrhydi © Hawlfraint y Goron. Mae atgynhychu heb ganiatâd yn torri hawlfraint y Goron a gall arwain at erlyniad new achos sifil. Llywodraeth Cymru, Rhif Trwydded GD 100017916, 2015.

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Welsh Government, Licence Number GD 100017916, 2015.

236000

235000