



Ammonia Screening Results



DEVELOPMENT: Erection of a free range egg production unit including silos and associated works

LOCATION: Celyn Mawr
Llanwddyn
Powys
SY10 0NN

CLIENT: THG Davies & Sons

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Introduction

It is proposed to erect a free range egg production unit with silos and associated works at Celyn Mawr to accommodate a maximum of 32,000 birds.

The purpose of this report is to explain and examine if the proposed development will have any impact on the ecological interest of the area. Particular note is given to the levels of ammonia which shall arise from the proposed poultry unit.

Location

The proposed development is located on the outskirts of Llanwddyn. The development is approximately 230 metres away from Celyn Mawr.

It is noted that there is an existing range of modern farm buildings positioned between the Farmhouse and the proposed development. The existence of modern buildings adjoining the proposed development is beneficial as it provides an ideal screen for the development from the Farmhouse.

Environmental Sites

Within a 10km radius of the application site, there are 23 environmental sites, ranging from 1.8km to 9.7km away from the proposed site and 1 Ancient Woodland at 0.7km away:

	Region	Site Name	Site Code	Designation Status	Distance from Installation (m)	Sensitive Habitats
1.	Wales	34073 Ancient Semi Natural Woodland	34073	Ancient Woodland	708	Sensitive Habitat
2.	Wales	Berwyn	4203	SSSI	1803	Sensitive Habitat
3.	Wales	Berwyn	UK9013111	SPA	1806	Sensitive Habitat
4.	Wales	Glebe Field I Llanwddyn	4684	SSSI	1810	Sensitive Habitat
5.	Wales	Coed Copi'R Graig	6225	SSSI	2886	Sensitive Habitat
6.	Wales	Gwaun Efail-Llwydiarth	5250	SSSI	3038	Sensitive Habitat
7.	Wales	Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains	UK0012926	SAC	4447	Sensitive Habitat
8.	Wales	Cors Llyn Coethlyn	6018	SSSI	4670	Sensitive Habitat



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9.	Wales	Gweunydd Dyfnant	6177	SSSI	4961	Sensitive Habitat
10.	Wales	Coed y Lawnt a Coed Oli	6043	SSSI	4962	Sensitive Habitat
11.	Wales	Cors Farchwel	4622	SSSI	5609	Sensitive Habitat
12.	Wales	Cors Lawnt	4134	SSSI	5987	Sensitive Habitat
13.	Wales	Gwaun Wern-y-Wig	5976	SSSI	6574	Sensitive Habitat
14.	Wales	Pen-Dugwm Woods	4367	SSSI	7279	Sensitive habitat
15.	Wales	Gweunydd Pen-y-Coed	6490	SSSI	7382	Sensitive Habitat
16.	Wales	Tanat and Vyrnwy Bat Sites / Safleoedd Ystumod Tanat ac Efyrrwy	UK0014783	SAC	7548	Sensitive Habitat
17.	Wales	West Llangynog Slate Mine	5243	SSSI	7550	Non-sensitive Habitat
18.	Wales	Mawnog Gwaunynog	3992	SSSI	7672	Sensitive Habitat
19.	Wales	Penygarnedd Mine	6435	SSSI	8678	Non-sensitive Habitat
20.	Wales	Gwaun Efail Wig	4515	SSSI	8747	Sensitive Habitat
21.	Wales	Coed yr Allt	838	SSSI	8802	Sensitive Habitat
22.	Wales	Cors Ty-Gwyn	4140	SSSI	9497	Sensitive Habitat
23.	Wales	Gweunydd Ceunant	5036	SSSI	9548	Non-sensitive Habitat
24.	Wales	Gweunydd Llechwedd-Newydd	6356	SSSI	9747	Sensitive Habitat



SCAIL Modelling – Assessment of Ammonia

The SCAIL calculation stands for a Simply Calculation of Atmospheric Impact Limits. It is a screening tool for assessing the impact from agricultural sources on semi-natural areas such as SSSI's. The SCAIL model was developed from the Integrated Pollution Prevention and Control (IPPC) Directive which requires permits for pig and poultry systems with more than a certain number of livestock. It is noted that for poultry units the IPPC directive only applies to poultry units with more than 40,000 places. The SCAIL model provides a worse case scenario to the impact of such developments.

The Environment Agency provide detailed guidance regarding Ammonia, Nitrogen and Background levels together with sources, critical loads and levels from farming operations within their document "H1 Environmental Risk Assessment for Permits, Annex B – Intensive Farming" December 2011 (ERA H1).

ERA H1 Section 7.4.3 states that

"An emission is insignificant where PC process contribution is <4% of Critical Levels for SACs, SPAs and Ramsars, <20% for SSSIs and <50% for local and national nature reserves, ancient woodland and local wildlife sites".

As well as housing the birds, the application of manure to the land can have an impact on designated sites. The application proposed will see manure taken from the building every 10 days and spread on the available farm land in accordance with the Codes of Good Agricultural and Environmental Condition and Cross Compliance Regulations.

Manure will be:

- Spread in suitable weather conditions
- At least 10 metres away from any water course
- Incorporated into the ground within a maximum of 24 hours after application



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[Scail Home](#) | [User Guide](#) | [SCAIL-Agriculture Report](#) | [Regulator Contact Details](#) | [Contact Us](#) | [Online Tutorial](#)

We have made a number of improvements to the SCAIL for agriculture tool. We have added cattle as a livestock option to cover their emissions. These are set out for housing, landspreading, manure/slurry storage, grazing and outdoor yards. Users can also add their own emissions. The layout should be simpler to use with larger font and input boxes. If you experience any issues then please [Contact Us](#)

Simple Calculation of Atmospheric Impact Limits from Agricultural Sources (SCAIL-Agriculture) is a screening tool for assessing the impact from pig and poultry farms on human health and on semi-natural areas like SSSIs and SACs. The model provides an estimate of the amount of acidity and nitrogen deposited from a farm as well as predictions of air concentrations of odour and PM10. These values can then be used to assess whether impact limits for human health or habitats are exceeded or not.

Information regarding the use of SCAIL-Agriculture as a screening tool and instructions for completing the assessment form are provided in the SCAIL-Agriculture User Guide. The User Guide also contains background information on regulatory requirements for the use of SCAIL-Agriculture, including instances where further detailed modelling of emissions will be required. **The relevant regulatory authority should be consulted for guidance regarding assessment requirements for planning and permitting purposes.**

[LOAD INPUT DATA](#)

Project Details	
Project Notes	Celyn Mawr
Project Run Mode	<input checked="" type="radio"/> Conservative Met <input type="radio"/> Realistic Met
Location Details	
Select Country	Wales
Installation Details	
Installation	1
Installation Name	Celyn Mawr
Installation Location	304123,318261 <input type="checkbox"/> Landranger <input checked="" type="checkbox"/> x,y CHOOSE/VERIFY LOCATION
Source Details	
Source	1 <input type="checkbox"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>
Source	<input type="radio"/> Pig <input checked="" type="radio"/> Poultry <input type="radio"/> Cattle <input type="radio"/> User defined emissions
New or Existing Source	New
Source Name	Celyn Mawr
Source Location	Provides a link to GoogleMaps to check the location. 304123,318261 <input type="checkbox"/> Landranger <input checked="" type="checkbox"/> x,y VERIFY LOCATION
Source Type	Housing
Type	Barn and free range
Details	Aviary system
Livestock Number	32000
Housing Floor Area	2340 m ²
Naturally Vented	<input type="checkbox"/>
Building Height	5.81 m
Fan Location	Roof
No. of Fans (optional)	12

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Fan Diameter m

Fan Flowrate m³/s

Total emissions :

Pollutant	Source Emissions	Running total of all emission sources	Units
NH ₃	2560	2560	(kg)
PM ₁₀	1056	1056	(kg)
Odour	1412812800	1412812800	(xOu)

[SET EMISSIONS VALUES](#)

Designated Site details:

Search Radius km

[RUN EXCEPTION SEARCH](#)

No. of Designated Sites

[VERIFY RECEPTOR LOCATIONS](#)

Site No.	Name	Distance(km)	Designation	Easting	Northing
1	Berwyn	1.803	SSSI	303301	319865
2	Berwyn	1.806	SPA	303317	319877
3	Glebe Field, Llanwddyn	1.81	SSSI	302518	319097
4	Coed Cogl'R, Graig	2.886	SSSI	303250	315509
5	Gwaun Efall-Llarydiarth	3.038	SSSI	306872	316967
6	Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains	4.447	SAC	299748	317463
7	Cors Llyn Coethlyn	4.67	SSSI	301271	314562
8	Gweunydd Dyfnant	4.961	SSSI	299952	315573
9	Coed y Lawnt a Coed Oll	4.962	SSSI	304903	313360
10	Cors Farchwel	5.609	SSSI	308972	315443
11	Cors Lawnt	5.987	SSSI	304656	312298
12	Gwaun Wern-y-Wig	6.574	SSSI	307468	312601
13	Pen-Dugwm Woods	7.279	SSSI	310273	314368
14	Gweunydd Pen-y-Coed	7.382	SSSI	297943	314222
15	Tanet and Vyrnwy Bat Sites / Safleoedd Ychymod Tanet ac Elyrnwy	7.548	SAC	304621	325792
16	West Llangynog Slate Mine	7.95	SSSI	304621	325794
17	Mawng Gwaunynog	7.672	SSSI	307477	311360
18	Perrygeredd Mine	8.678	SSSI	310812	323788
19	Gwaun Efall Wig	8.747	SSSI	309157	311108
20	Coed yr Allt	8.802	SSSI	312450	321110
21	Cors Ty-Gwyn	9.497	SSSI	310355	311095
22	Gweunydd Ceunant	9.548	SSSI	310982	311619
23	Gweunydd Llechwedd-Newydd	9.747	SSSI	296077	312758

User specified site [Add site](#)

Site Name

Site Location [Landranger](#) [VERIFY LOCATIONS](#)

Habitat within site

[CHECK BACKGROUND LEVELS](#)

Human Health Receptor Details

Receptor [Add Receptor](#)

PM₁₀ percentile

Receptor Name

Receptor Location



34073 Ancient Semi Natural Woodland 0.7km (Grid Ref: 304490, 317655)

Site Code: N/A
 Designation Status: User defined
 Distance from Installation (m): 708
 Receptor Type: Broadleaved, Mixed and Yew Woodland

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.37	1.95	0.131	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.37	2.90	0.200	-	-
Background concentration at receptor edge	0.72	26.46	2.26 (N:1.89 S:0.37)	-	-
	1.09	29.36	2.46	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Broadleaved, Mixed and Yew Woodland	maxN: 3.53 maxS: 3.17 minN: 0.36 Broadleaved, Mixed and Yew Woodland	-	-
% of relevant standard PC	Lower: 37% Upper: 12%	29%	6%	-	-
% of relevant standard PEC	Lower: 109% Upper: 36%	294%	70%	-	-
EXCEEDANCE	Lower: 0.09 Upper: No exceedance	19.36	-1.07	-	-



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Offices also at Minsterley & Welshpool

Berwyn SSSI 1.8km (Grid Ref: 303301, 319865)

Site Code: 4203
 Designation Status: SSSI
 Distance from Installation (m): 1803
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.08	0.4	0.027	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.08	0.42	0.028	-	-
Background concentration at receptor edge	0.72	18.34	1.61 (N:1.31 S:0.30)	-	-
	0.8	18.76	1.64	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Bogs	maxN: 0.74 maxS: 0.42 minN: 0.32 Bogs	-	-
% of relevant standard PC	Lower: 8% Upper: 3%	8%	4%	-	-
% of relevant standard PEC	Lower: 80% Upper: 27%	375%	222%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	13.76	0.90	-	-



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Berwyn SPA 1.8km (Grid Ref: 303317, 319877)

Site Code: UK9013111
 Designation Status: SPA
 Distance from Installation (m): 1806
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.08	0.4	0.027	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.08	0.42	0.028	-	-
Background concentration at receptor edge	0.72	18.34	2.26 (N:1.89 S:0.37)	-	-
	0.8	18.76	2.29	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Circus cyaneus	maxN: 0.89 maxS: 0.61 minN: 0.14 Milvus milvus	-	-
% of relevant standard PC	Lower: 8% Upper: 3%	4%	3%	-	-
% of relevant standard PEC	Lower: 80% Upper: 27%	188%	257%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	8.76	1.40	-	-



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Glebe Field I Llanwddyn SSSI 1.8km (Grid Ref: 302518, 319097)

Site Code: 4684
 Designation Status: SSSI
 Distance from Installation (m): 1810
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.08	0.4	0.027	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.08	0.42	0.028	-	-
Background concentration at receptor edge	0.72	18.34	1.61 (N:1.31 S:0.30)	-	-
	0.8	18.76	1.64	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Neutral grassland	maxN: 5.00 maxS: 4.00 minN: 1.00 Neutral grassland	-	-
% of relevant standard PC	Lower: 8% Upper: 3%	4%	1%	-	-
% of relevant standard PEC	Lower: 80% Upper: 27%	188%	33%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	8.76	-3.36	-	-



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Coed Copi'R Graig SSSI 2.8km (Grid ref: 303250, 315509)

Site Code: 6225
 Designation Status: SSSI
 Distance from Installation (m): 2886
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.04	0.34	0.023	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.04	0.31	0.021	-	-
Background concentration at receptor edge	0.72	26.46	2.26 (N:1.89 S:0.37)	-	-
	0.76	26.77	2.28	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 3.38 maxS: 3.02 minN: 0.36 Broad-leaved, mixed and yew woodland	-	-
% of relevant standard PC	Lower: 4% Upper: 1%	6%	1%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	535%	67%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	21.77	-1.10	-	-



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Gwaun Efail-Llwydiarth SSSI 3.0km (Grid ref: 306872, 316967)

Site Code: 5250
 Designation Status: SSSI
 Distance from Installation (m): 3038
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.04	0.21	0.014	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.04	0.21	0.014	-	-
Background concentration at receptor edge	0.91	19.04	1.64 (N:1.36 S:0.28)	-	-
	0.95	19.25	1.65	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland	maxN: 2.10 maxS: 1.66 minN: 0.44 Acid grassland	-	-
% of relevant standard PC	Lower: 4% Upper: 1%	3%	0%	-	-
% of relevant standard PEC	Lower: 95% Upper: 32%	241%	79%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	11.25	-0.45	-	



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Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains SAC 4.4km (Grid ref: 299748, 317463)

Site Code: UK0012926
 Designation Status: SAC
 Distance from Installation (m): 4447
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H ⁺ /ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.03	0.14	0.009	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H ⁺ /ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge Background concentration at receptor edge	0.03 0.51 0.54	0.16 19.46 19.62	0.011 1.74 (N:1.39 S:0.35) 1.75	- - -	- - -
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Blanket bogs	maxN: 0.55 maxS: 0.23 minN: 0.18 Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii)	-	-
% of relevant standard PC	Lower: 3% Upper: 1%	3%	2%	-	-
% of relevant standard PEC	Lower: 54% Upper: 18%	392%	318%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	14.62	1.20	-	-



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Cors Llyn Coethlyn SSSI 4.6km (Grid ref: 301271, 314562)

Site Code: 6018
 Designation Status: SSSI
 Distance from Installation (m): 4670
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.02	0.13	0.009	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.02	0.10	0.007	-	-
Background concentration at receptor edge	1.10	19.60	1.69 (N:1.40 S:0.29)	-	-
	1.12	19.7	1.7	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Fen, marsh and swamp	maxN: 0.87 maxS: 0.50 minN: 0.37 Fen, marsh and swamp	-	-
% of relevant standard PC	Lower: 2% Upper: 1%	1%	1%	-	-
% of relevant standard PEC	Lower: 112% Upper: 37%	197%	195%	-	-
EXCEEDANCE	Lower: 0.12 Upper: No exceedance	9.70	0.83	-	-



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Gweunydd Dyfnant SSSI 4.9km (Grid ref: 299952, 315573)

Site Code: 6177
 Designation Status: SSSI
 Distance from Installation (m): 4961
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.02	0.12	0.008	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.02	0.10	0.007	-	-
Background concentration at receptor edge	0.51	19.46	1.74 (N:1.39 S:0.35)	-	-
	0.53	19.56	1.75	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland	maxN: 0.91 maxS: 0.54 minN: 0.37 Acid grassland	-	-
% of relevant standard PC	Lower: 2% Upper: 1%	1%	1%	-	-
% of relevant standard PEC	Lower: 53% Upper: 18%	245%	192%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	11.56	0.84	-	-



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Coed y Lawnt a Coed Oli SSSI 4.9km (Grid ref: 304903, 313360)

Site Code: 6043
 Designation Status: SSSI
 Distance from Installation (m): 4962
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.02	0.18	0.012	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge Background concentration at receptor edge	0.02 1.10 1.12	0.16 28.70 28.86	0.011 2.40 (N:2.05 S:0.35) 2.41	- - -	- - -
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 1.66 maxS: 1.37 minN: 0.28 Broad-leaved, mixed and yew woodland	-	-
% of relevant standard PC	Lower: 2% Upper: 1%	3%	1%	-	-
% of relevant standard PEC	Lower: 112% Upper: 37%	577%	145%	-	-
EXCEEDANCE	Lower: 0.12 Upper: No exceedance	23.86	0.75	-	-



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Cors Farchwel SSSI 5.6km (Grid ref: 308972, 315443)

Site Code: 4622
 Designation Status: SSSI
 Distance from Installation (m): 5609
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.02	0.1	0.007	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.02	0.10	0.007	-	-
Background concentration at receptor edge	0.91	19.04	1.64 (N:1.36 S:0.28)	-	-
	0.93	19.14	1.65	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland	maxN: 0.88 maxS: 0.51 minN: 0.37 Acid grassland	-	-
% of relevant standard PC	Lower: 2% Upper: 1%	1%	1%	-	-
% of relevant standard PEC	Lower: 93% Upper: 31%	239%	188%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	11.14	0.77	-	-



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Cors Lawnt SSSI 5.9km (Grid ref: 304656, 312298)

Site Code: 4134
 Designation Status: SSSI
 Distance from Installation (m): 5987
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.02	0.1	0.006	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.02	0.10	0.007	-	-
Background concentration at receptor edge	1.10	19.60	1.69 (N:1.40 S:0.29)	-	-
	1.12	19.7	1.7	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Bogs	maxN: 0.84 maxS: 0.52 minN: 0.32 Bogs	-	-
% of relevant standard PC	Lower: 2% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 112% Upper: 37%	394%	202%	-	-
EXCEEDANCE	Lower: 0.12 Upper: No exceedance	14.70	0.86	-	-



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Gwaun Wern-y-Wig SSSI 6.5km (Grid ref: 307468, 312601)

Site Code: 5976
 Designation Status: SSSI
 Distance from Installation (m): 6574
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.02	0.09	0.006	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.02	0.10	0.007	-	-
Background concentration at receptor edge	1.26	19.46	1.66 (N:1.39 S:0.27)	-	-
	1.28	19.56	1.67	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland	maxN: 0.86 maxS: 0.49 minN: 0.37 Acid grassland	-	-
% of relevant standard PC	Lower: 2% Upper: 1%	1%	1%	-	-
% of relevant standard PEC	Lower: 128% Upper: 43%	245%	194%	-	-
EXCEEDANCE	Lower: 0.28 Upper: No exceedance	11.56	0.81	-	



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Pen-Dugwm Woods SSSI 7.2km (Grid Ref: 310273, 314368)

Site Code: 4367
 Designation Status: SSSI
 Distance from Installation (m): 7279
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.12	0.008	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01	0.08	0.005	-	-
Background concentration at receptor edge	1.43	27.30	2.21 (N:1.95 S:0.26)	-	-
	1.44	27.38	2.22	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 1.41 maxS: 1.12 minN: 0.28 Broad-leaved, mixed and yew woodland	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	2%	1%	-	-
% of relevant standard PEC	Lower: 144% Upper: 48%	548%	157%	-	-
EXCEEDANCE	Lower: 0.44 Upper: No exceedance	22.38	0.80	-	-



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Gweunydd Pen-y-Coed SSSI 7.3km (Grid Ref: 297943, 314222)

Site Code: 6490
 Designation Status: SSSI
 Distance from Installation (m): 7382
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.08	0.005	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01	0.05	0.004	-	-
Background concentration at receptor edge	0.75	18.34	1.62 (N:1.31 S:0.31)	-	-
	0.76	18.39	1.62	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper:	8.0 Acid grassland	maxN: 2.09 maxS: 1.65 minN: 0.44 Acid grassland	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	1%	0%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	230%	78%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	10.39	-0.47	-	-



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Tanat and Vyrnwy Bat Sites / Safleoedd Ystlumod Tanat ac Efyrnwy SAC 7.5km (Grid Ref: 304621, 325792)

Site Code:	UK0014783
Designation Status:	SAC
Distance from Installation (m):	7548
Receptor Type:	Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.11	0.008	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01	0.08	0.005	-	-
Background concentration at receptor edge	0.60	32.76	2.84 (N:2.34 S:0.50)	-	-
	0.61	32.84	2.85	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Rhinolophus hipposideros	maxN: 1.34 maxS: 1.05 minN: 0.14 Rhinolophus hipposideros	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	1%	1%	-	-
% of relevant standard PEC	Lower: 61% Upper: 20%	328%	213%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	22.84	1.50	-	-



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Mawnog Gwaunynog SSSI 7.6km (Grid Ref: 307477, 311360)

Site Code: 3992
 Designation Status: SSSI
 Distance from Installation (m): 7672
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.11	0.007	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01	0.08	0.005	-	-
Background concentration at receptor edge	1.26	28.56	1.66 (N:1.39 S:0.27)	-	-
	1.27	28.64	1.66	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 2.08 maxS: 1.64 minN: 0.44 Fen, marsh and swamp	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	2%	0%	-	-
% of relevant standard PEC	Lower: 127% Upper: 42%	573%	80%	-	-
EXCEEDANCE	Lower: 0.27 Upper: No exceedance	23.64	-0.42	-	-



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Gwaun Efail Wig SSSI 8.7km (Grid Ref: 309157, 311108)

Site Code: 4515
 Designation Status: SSSI
 Distance from Installation (m): 8747
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.06	0.004	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01	0.05	0.004	-	-
Background concentration at receptor edge	1.26	19.46	1.66 (N:1.39 S:0.27)	-	-
	1.27	19.51	1.66	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland	maxN: 2.08 maxS: 1.64 minN: 0.44 Acid grassland	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	1%	0%	-	-
% of relevant standard PEC	Lower: 127% Upper: 42%	244%	80%	-	-
EXCEEDANCE	Lower: 0.27 Upper: No exceedance	11.51	-0.42	-	-



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Coed yr Allt 8.8km SSSI (Grid Ref: 312450, 321110)

Site Code: 838
 Designation Status: SSSI
 Distance from Installation (m): 8802
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.1	0.006	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge Background concentration at receptor edge	0.01 1.40 1.41	0.08 30.66 30.74	0.005 2.50 (N:2.19 S:0.31) 2.51	- - -	- - -
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 1.54 maxS: 1.25 minN: 0.28 Broad-leaved, mixed and yew woodland	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	2%	1%	-	-
% of relevant standard PEC	Lower: 141% Upper: 47%	615%	163%	-	-
EXCEEDANCE	Lower: 0.41 Upper: No exceedance	25.74	0.96	-	-



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Cors Ty-Gwyn SSSI 9.4km (Grid Ref: 310355, 311095)

Site Code: 4140
 Designation Status: SSSI
 Distance from Installation (m): 9497
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.09	0.006	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01	0.08	0.005	-	-
Background concentration at receptor edge	1.43	27.30	2.21 (N:1.95 S:0.26)	-	-
	1.44	27.38	2.22	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Broad-leaved, mixed and yew woodland	maxN: 3.07 maxS: 2.71 minN: 0.36 Broad-leaved, mixed and yew woodland	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	2%	0%	-	-
% of relevant standard PEC	Lower: 144% Upper: 48%	548%	72%	-	-
EXCEEDANCE	Lower: 0.44 Upper: No exceedance	22.38	-0.85	-	-



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Gweunydd Llechwedd-Newydd SSSI 9.7km (Grid Ref: 296077, 312758)

Site Code: 6356
 Designation Status: SSSI
 Distance from Installation (m): 9747
 Receptor Type: Habitat

Installation Information

No.	Name	No. of sources	No. of new sources	PM ₁₀ (t/a)	NH ₃ (t/a)	Odour (kOu/a)	Conc NH ₃ (µg/m ³)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM ₁₀ (µg/m ³)	Conc Odour (Ou/m ³)
1	Celyn Mawr	1	1	-	2.6	-	0.01	0.06	0.004	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH ₃ (µg/m ³)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM ₁₀ (µg/m ³)	Odour (Ou/m ³)
Process Contribution (PC) at receptor edge	0.01	0.05	0.004	-	-
Background concentration at receptor edge	0.75	18.34	1.62 (N:1.31 S:0.31)	-	-
	0.76	18.39	1.62	-	-
Predicted Environmental Concentration/Deposition (PEC)					
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	8.0 Acid grassland	maxN: 2.09 maxS: 1.65 minN: 0.44 Acid grassland	-	-
% of relevant standard PC	Lower: 1% Upper: 0%	1%	0%	-	-
% of relevant standard PEC	Lower: 76% Upper: 25%	230%	78%	-	-
EXCEEDANCE	Lower: No exceedance Upper: No exceedance	10.39	-0.47	-	



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SSSI Name	Background Levels		Contribution to ammonia average (NH3) concentration from this proposal	Critical level for habitat (ug)	% contribution to NH3 critical levels (CL for habitat is 3ug)*	Contribution to Nitrogen (N) deposition from this proposal	CL for habitat (kg/ha /yr)	% contribution to N critical loads (CL for habitat Low Level)
	NH3 (ug)	N (kg)						
34073 Ancient Semi Natural Woodland	0.72	26.46	0.37	3	12.3%	2.90	10	29%
Berwyn	0.72	18.34	0.08	3	2.6%	0.42	5	8.4%
Berwyn	0.72	18.34	0.08	3	2.6%	0.42	10	4.2%
Glebe Field I Llanwddyn	0.72	18.34	0.08	3	2.6%	0.42	10	4.2%
Coed Copi'r Graig	0.72	26.46	0.04	3	1.33%	0.31	5	6.2%
Gwaun Efail-Llwydiarth	0.91	19.04	0.04	3	1.33%	0.21	8	2.62%
Berwyn a Mynyddoedd de Clwyd / Berwyn and South Clwyd Mountains	0.51	19.46	0.03	3	1%	0.16	5	3.2%
Cors Llyn Coethlyn	1.10	19.60	0.02	3	0.66%	0.10	10	1%
Gweunydd Dyfnant	0.51	19.46	0.02	3	0.66%	0.10	8	1.25%
Coed y Lawnt a Coed Oli	1.10	28.70	0.02	3	0.66%	0.16	5	3.2%
Cors Farchwel	0.91	19.04	0.02	3	0.66%	0.10	8	1.25%
Cors Lawnt	1.10	19.60	0.02	3	0.66%	0.10	5	2%
Gwaun Wern-y-Wig	1.26	19.46	0.02	3	0.66%	0.10	8	1.25%
Pen-Dugwm Woods	1.43	27.30	0.01	3	0.33%	0.08	5	1.6%
Gweunydd Pen-y-Coed	0.75	18.34	0.01	3	0.33%	0.05	8	0.62%
Tanat and Vyrnwy Bat	0.60	32.76	0.01	3	0.33%	0.08	10	0.8%



Sites / Safleoedd Ystlumod Tanat ac Efyrrwy								
Mawnog Gwaunynog	1.26	28.56	0.01	3	0.33%	0.08	5	1.6%
Gwaun Efail Wig	1.26	19.46	0.01	3	0.33%	0.05	8	0.62%
Coed yr Allt	1.40	30.66	0.01	3	0.33%	0.08	5	1.6%
Cors Ty-Gwyn	1.43	27.30	0.01	3	0.33%	0.08	5	1.6%
Gweunydd Llechwedd- Newydd	0.75	18.34	0.01	3	0.33%	0.05	8	0.62%

Conclusion

Based upon the results of the preliminary ammonia screening assessment, it is considered that the CCW would not require further modelling of ammonia emissions for the proposed poultry farm as ammonia emissions have been screened as insignificant following use of the SCAIL screening tool.



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