SCAIL ASSESSMENT – CLOSES HALL FARM CATTLE HOUSING

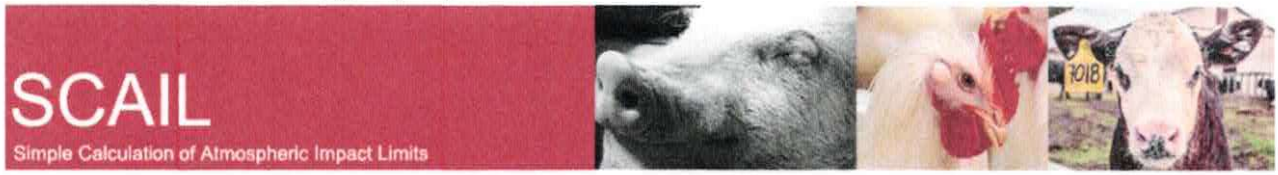
The cattle housing will provide accommodation for 90 adult cattle housed for 365 days on a slurry based cubicle system.

SCAIL input data is provided as Appendix A

Results are shown as Appendix B

The results show there will be no significant impact on protected sites.

Results data is attached separately as an Excel csv file



June 11th, 2024: SCAIL background pollution maps for the UK have been updated to the the **years 2020-2022** in line with current APIS (see announcement). We have also introduced a new Hybrid mode for users (see User Guide for details of how to use it).

NOTICE As of **18:30 GMT 18th December 2024** SCAIL Agriculture now uses new emision factors and new housing types for both Pig and Poultry for the UK only (Ireland unaffected). Cattle emission factors are also unaffected. You will **not** be able to load or run an old input file and will have to select the new options and then save your inputs. The published emission factors are available on the following page Ammonia emission factors for pig and poultry screening, modelling and reporting

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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 heath 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: Closes Hall Farm Cattle Housing

Project Run Mode: ○ Hybrid Met ◉ Conservative Met ○ Realistic Met

Location Details

Select Country: England

Installation Details

Installation: 1

Installation Name: Cubicle Housing

Installation Location: 380382,450670 ○ Landranger ◉ x,y

CHOOSE / VERIFY LOCATION

Source Details

Source: 1

Source: ○ Pig ○ Poultry ◉ Cattle ○ User defined emissions

New or Existing Source: New

Source Name: Cubicle Housing

Source Location: Provides a link to GoogleMaps to check the location.

380382,450670 ○ Landranger ◉ x,y

VERIFY LOCATION

Source Type: Housing

Type: Dairy cows

Details: Slurry based cubicle housing

Livestock Number: 90

Housing Floor Area: 686 m^2

Number of days: 365 days

Naturally Vented: ☑

Building Height	5.5	m
Fan Location	please select...	
No. of Fans (optional)		
Fan Diameter		m
Fan Flowrate		m^3/s

Total emissions :

Pollutant	Source Emissions	Running total of all emission sources	Units
NH_3:	2332	0	(kg)
PM_{10}:	6537	0	(kOu)
Odour:	26934897600	0	(kOu)

GET EMISSIONS VALUES

Designated Site details:

Search Radius 10 km RUN RECEPTOR SEARCH

No. of Designated Sites 15 found VERIFY RECEPTOR LOCATIONS

Site No.	Name	Distance(km)	Designation	Country	Easting	Northing
1	New Ing Meadow	1.487	SSSI	ENGLAND	378897	450593
2	White Moss	3.726	SSSI	ENGLAND	379350	454251
3	Clitheroe Knoll Reefs	6.773	SSSI	ENGLAND	378428	444185
4	Pan Beck Fen	6.792	SSSI	ENGLAND	384839	455795
5	River Ribble (Long Preston Deeps)	6.839	SSSI	ENGLAND	382418	457199
6	Standridge Farm Pasture	7.431	SSSI	ENGLAND	373470	453398
7	Langcliff Cross Meadow	7.69	SSSI	ENGLAND	372771	451769
8	North Pennine Dales Meadows	7.69	SAC	ENGLAND	372771	451769
9	Field Head Meadow	7.912	SSSI	ENGLAND	372696	452548
10	Barn Gill Meadow	8.155	SSSI	ENGLAND	373269	454660
11	Bell Sykes Meadows	8.619	SSSI	ENGLAND	371961	452507
12	Salthill and Bellmanpark Quarries	8.772	SSSI	ENGLAND	376222	442947
13	Coplow Quarry	9.043	SSSI	ENGLAND	375238	443232
14	Little Mearley Clough	9.505	SSSI	ENGLAND	378138	441434
15	Hesley Moss	9.578	SSSI	ENGLAND	378354	460031

User specified site Select Add site

Site Name

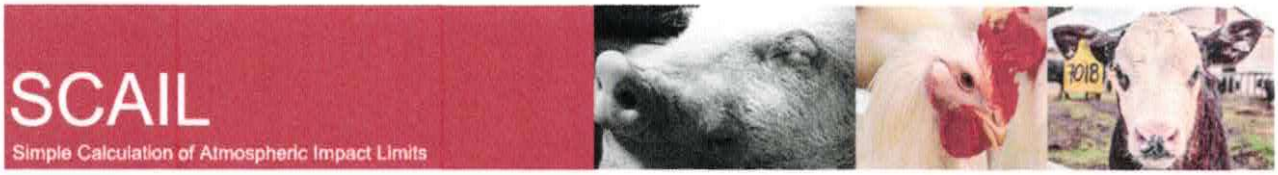
Site Location Landranger x,y

VERIFY LOCATION

Habitat within site please select... CHECK BACKGROUND LEVELS

Human Health Receptor Details

Receptor Select Add Receptor PM_{10} percentile Annual mean



Results

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Content Specific Help Text

Site Information New Ing Meadow (SSSI)

Country:	ENGLAND
Site Name:	New Ing Meadow
Site Code:	1006296
Designation Status:	SSSI
Distance from Installation (m):	1487
Receptor Type:	Habitat
Grid Reference:	378897,450593
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

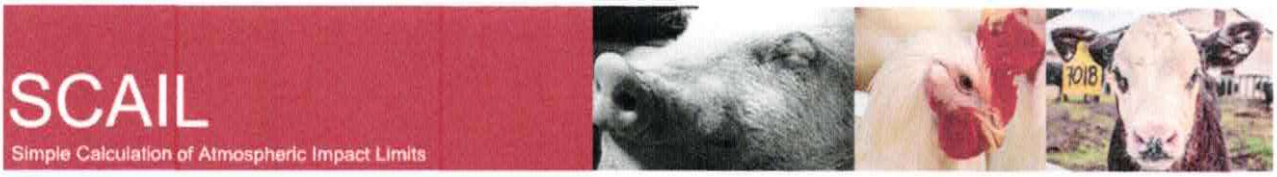
Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (t/a)	NH_3 (t/a)	Odour (kOu/a)	Conc NH_3 (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.35	1.8	0.121	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.34577	1.80	0.130	-	-
Background concentration at receptor edge	1.66	19.95	1.612 (N: 1.425|S: 0.187)	-	-
Predicted Environmental Concentration/Deposition (PEC)	2.01	21.75	1.74	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 35% Upper: 12%	18%	0%	-	-
% of relevant standard PEC	Lower: 201% Upper: 67%	217%	32%	-	-
EXCEEDANCE	Lower: 1.01 Upper: No exceedance	11.75	-3.33	-	-

Project Notes



Results

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Content Specific Help Text

Site Information White Moss (SSSI)

Country:	ENGLAND
Site Name:	White Moss
Site Code:	1002735
Designation Status:	SSSI
Distance from Installation (m):	3726
Receptor Type:	Habitat
Grid Reference:	379350,454251
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

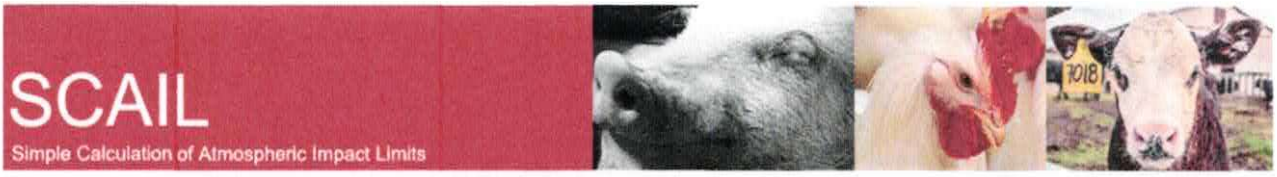
No.	Name	No. of sources	No. of new sources	PM_{10} (t/a)	NH_3 (t/a)	Odour (kOu/a)	Conc NH_3 (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.08	0.39	0.026	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.07557	0.39	0.028	-	-
Background concentration at receptor edge	1.57	20.39	1.649 (N: 1.456|S: 0.193)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.65	20.78	1.68	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	maxN: 0.732 maxS: 0.411 minN: 0.321 Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 8% Upper: 3%	8%	18%	-	-
% of relevant standard PEC	Lower: 165% Upper: 55%	416%	243%	-	-
EXCEEDANCE	Lower: 0.65 Upper: No exceedance	15.78	0.95	-	-

Project Notes

Closes Hall Farm Cattle Housing



Results

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Content Specific Help Text

Site Information Clitheroe Knoll Reefs (SSSI)

Country:	ENGLAND
Site Name:	Clitheroe Knoll Reefs
Site Code:	1000894
Designation Status:	SSSI
Distance from Installation (m):	6773
Receptor Type:	Habitat
Grid Reference:	378428,444185
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.03	0.14	0.01	-	-

Total Depositions/Concentrations and Exceedances

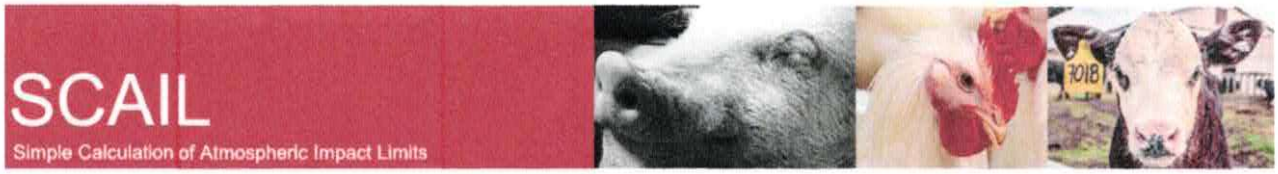
Concentrations/Depositions and Critical Loads/Levels	**NH_3 (µg/m3)**	**N Dep. (kg N/ha/yr)**	**Acid Dep. (kEq H+/ha/yr)**	**PM_{10} (µg/m3)**	**Odour (Ou/m3)**
Process Contribution (PC) at receptor edge	0.02787	0.14	0.010	-	-
Background concentration at receptor edge	1.54	19.92	1.624 (N: 1.423|S: 0.202)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.57	20.06	1.63	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site	No sensitive habitat or species at this site	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 157% Upper: 52%	n/a	n/a	-	-
EXCEEDANCE	Lower: 0.57 Upper: No exceedance	n/a	n/a	-	-

Project Notes

Closes Hall Farm Cattle Housing

SAVE RESULTS SAVE INPUTS

[Use this Back button. Do not use the browser back button - you could lose all inputs!] BACK



Results

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Content Specific Help Text

Site Information Pan Beck Fen (SSSI)

Country:	ENGLAND
Site Name:	Pan Beck Fen
Site Code:	1002971
Designation Status:	SSSI
Distance from Installation (m):	6792
Receptor Type:	Habitat
Grid Reference:	384839,455795
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.03	0.14	0.01	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.02775	0.14	0.010	-	-
Background concentration at receptor edge	1.81	20.39	1.637 (N: 1.456|S: 0.180)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.84	20.53	1.65	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	15.0 Carex Dioica - Pinguicula Vulgaris Mire	No sensitive habitat or species at this site	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 3% Upper: 1%	1%	n/a	-	-
% of relevant standard PEC	Lower: 184% Upper: 61%	137%	n/a	-	-
EXCEEDANCE	Lower: 0.84 Upper: No exceedance	5.53	n/a	-	-

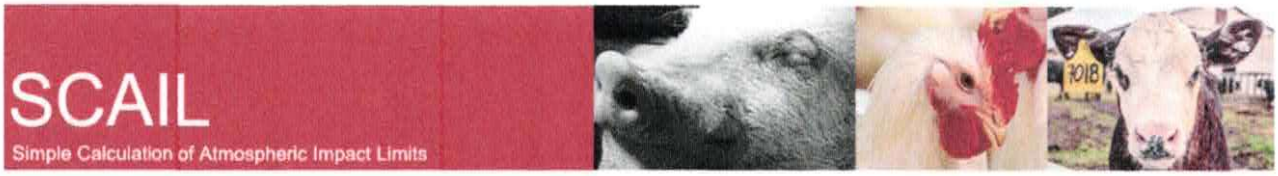
Project Notes

Closes Hall Farm Cattle Housing

SAVE RESULTS SAVE INPUTS

[Use this Back button. Do not use the browser back button - you could lose all inputs!]

BACK



Results

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Content Specific Help Text

Site Information Standridge Farm Pasture (SSSI)

Country:	ENGLAND
Site Name:	Standridge Farm Pasture
Site Code:	2000206
Designation Status:	SSSI
Distance from Installation (m):	7431
Receptor Type:	Habitat
Grid Reference:	373470,453398
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

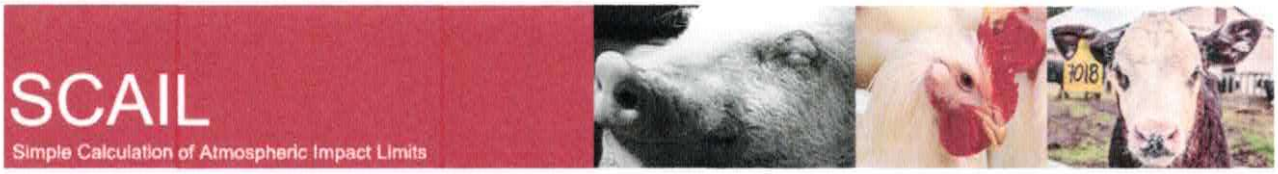
Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (t/a)	NH_3 (t/a)	Odour (kOu/a)	Conc NH_3 (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.12	0.008	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.02386	0.12	0.009	-	-
Background concentration at receptor edge	1.37	20.96	1.720 (N: 1.497|S: 0.223)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.39	21.08	1.73	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.214 maxS: 4.000 minN: 1.214 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	1%	0%	-	-
% of relevant standard PEC	Lower: 139% Upper: 46%	211%	33%	-	-
EXCEEDANCE	Lower: 0.39 Upper: No exceedance	11.08	-3.49	-	-

Project Notes



Results

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Content Specific Help Text

Site Information Langcliff Cross Meadow (SSSI)

Country:	ENGLAND
Site Name:	Langcliff Cross Meadow
Site Code:	1003896
Designation Status:	SSSI
Distance from Installation (m):	7690
Receptor Type:	Habitat
Grid Reference:	372771,451769
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

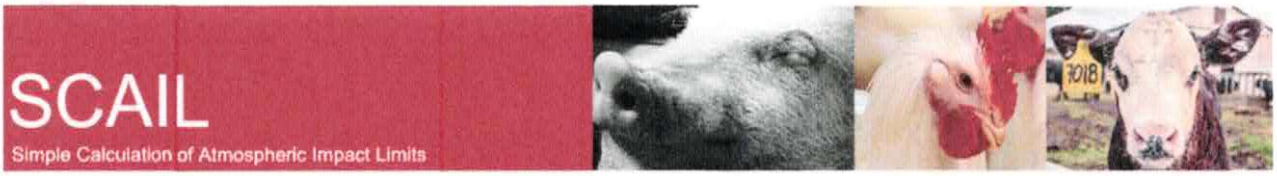
Installation Information

No.	Name	No. of sources	No. of new sources	PM_{10} (t/a)	NH_3 (t/a)	Odour (kOu/a)	Conc NH_3 (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.12	0.008	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	**NH_3 (µg/m3)**	**N Dep. (kg N/ha/yr)**	**Acid Dep. (kEq H+/ha/yr)**	**PM_{10} (µg/m3)**	**Odour (Ou/m3)**
Process Contribution (PC) at receptor edge	0.02253	0.12	0.009	-	-
Background concentration at receptor edge	1.33	21.50	1.765 (N: 1.536|S: 0.229)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.35	21.62	1.77	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	1%	0%	-	-
% of relevant standard PEC	Lower: 135% Upper: 45%	216%	35%	-	-
EXCEEDANCE	Lower: 0.35 Upper: No exceedance	11.62	-3.30	-	-

Project Notes



Results

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Content Specific Help Text

Site Information North Pennine Dales Meadows (SAC)

Country:	ENGLAND
Site Name:	North Pennine Dales Meadows
Site Code:	UK0014775
Designation Status:	SAC
Distance from Installation (m):	7690
Receptor Type:	Habitat
Grid Reference:	372771,451769
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.12	0.008	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.02253	0.12	0.009	-	-
Background concentration at receptor edge	1.33	21.50	1.765 (N: 1.536|S: 0.229)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.35	21.62	1.77	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Limestone pavements	maxN: 4.856 maxS: 4.000 minN: 0.856 Limestone pavements	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS					
% of relevant standard PC	Lower: 2% Upper: 1%	2%	0%	-	-
% of relevant standard PEC	Lower: 135% Upper: 45%	432%	36%	-	-
EXCEEDANCE	Lower: 0.35 Upper: No exceedance	16.62	-3.08	-	-

Project Notes

Closes Hall Farm Cattle Housing

Results

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Content Specific Help Text

Site Information Field Head Meadow (SSSI)

Country:	ENGLAND
Site Name:	Field Head Meadow
Site Code:	2000349
Designation Status:	SSSI
Distance from Installation (m):	7912
Receptor Type:	Habitat
Grid Reference:	372696,452548
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.11	0.008	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.02147	0.11	0.008	-	-
Background concentration at receptor edge	1.40	21.05	1.728 (N: 1.504|S: 0.225)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.42	21.16	1.74	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	1%	0%	-	-
% of relevant standard PEC	Lower: 142% Upper: 47%	212%	34%	-	-
EXCEEDANCE	Lower: 0.42 Upper: No exceedance	11.16	-3.33	-	-

Project Notes

Results

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Content Specific Help Text

Site Information Barn Gill Meadow (SSSI)

Country:	ENGLAND
Site Name:	Barn Gill Meadow
Site Code:	2000039
Designation Status:	SSSI
Distance from Installation (m):	8155
Receptor Type:	Habitat
Grid Reference:	373269,454660
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

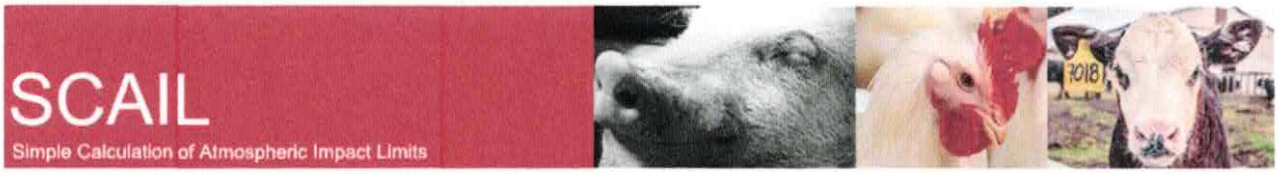
No.	Name	No. of sources	No. of new sources	PM_{10} (t/a)	NH_3 (t/a)	Odour (kOu/a)	Conc NH_3 (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.11	0.007	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.02041	0.11	0.008	-	-
Background concentration at receptor edge	1.29	21.12	1.737 (N: 1.509|S: 0.229)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.31	21.23	1.75	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Alopecurus pratensis - Sanguisorba officinalis Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Alopecurus pratensis - Sanguisorba officinalis Grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	1%	0%	-	-
% of relevant standard PEC	Lower: 131% Upper: 44%	212%	35%	-	-
EXCEEDANCE	Lower: 0.31 Upper: No exceedance	11.23	-3.33	-	-

Project Notes

Closes Hall Farm Cattle Housing



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Content Specific Help Text

Site Information Bell Sykes Meadows (SSSI)

Country:	ENGLAND
Site Name:	Bell Sykes Meadows
Site Code:	2000350
Designation Status:	SSSI
Distance from Installation (m):	8619
Receptor Type:	Habitat
Grid Reference:	371961,452507
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

Installation Information

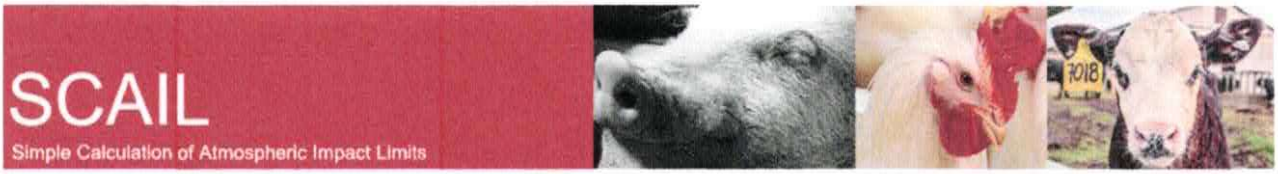
No.	Name	No. of sources	No. of new sources	PM_{10} (t/a)	NH_3 (t/a)	Odour (kOu/a)	Conc NH_3 (µg/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.1	0.007	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.01860	0.10	0.007	-	-
Background concentration at receptor edge	1.38	21.14	1.739 (N: 1.510|S: 0.229)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.4	21.24	1.75	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	10.0 Alopecurus pratensis - Sanguisorba officinalis Grassland	maxN: 5.071 maxS: 4.000 minN: 1.071 Alopecurus pratensis - Sanguisorba officinalis Grassland	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	1%	0%	-	-
% of relevant standard PEC	Lower: 140% Upper: 47%	212%	35%	-	-
EXCEEDANCE	Lower: 0.40 Upper: No exceedance	11.24	-3.32	-	-

Project Notes

Closes Hall Farm Cattle Housing



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Content Specific Help Text

Site Information Salthill and Bellmanpark Quarries (SSSI)

Country:	ENGLAND
Site Name:	Salthill and Bellmanpark Quarries
Site Code:	1002604
Designation Status:	SSSI
Distance from Installation (m):	8772
Receptor Type:	Habitat
Grid Reference:	376222,442947
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.09	0.006	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.01806	0.09	0.007	-	-
Background concentration at receptor edge	1.62	20.40	1.664 (N: 1.457|S: 0.207)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.64	20.49	1.67	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site	No sensitive habitat or species at this site	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 164% Upper: 55%	n/a	n/a	-	-
EXCEEDANCE	Lower: 0.64 Upper: No exceedance	n/a	n/a	-	-

Project Notes

Closes Hall Farm Cattle Housing

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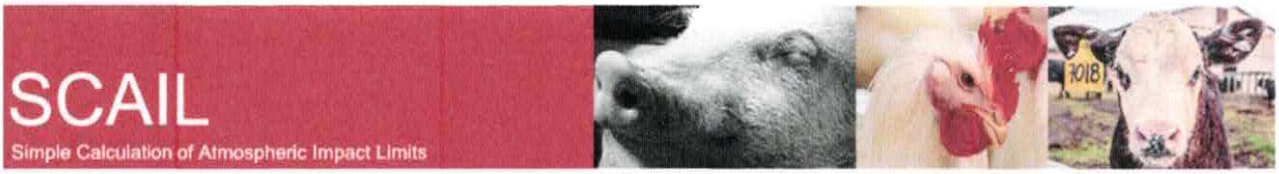

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Content Specific Help Text

Site Information Coplow Quarry (SSSI)

Country:	ENGLAND
Site Name:	Coplow Quarry
Site Code:	1002838
Designation Status:	SSSI
Distance from Installation (m):	9043
Receptor Type:	Habitat
Grid Reference:	375238,443232
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.09	0.006	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	**NH_3 (µg/m3)**	**N Dep. (kg N/ha/yr)**	**Acid Dep. (kEq H+/ha/yr)**	**PM_{10} (µg/m3)**	**Odour (Ou/m3)**
Process Contribution (PC) at receptor edge	0.01716	0.09	0.006	-	-
Background concentration at receptor edge	1.98	21.03	1.712 (N: 1.502|S: 0.210)	-	-
Predicted Environmental Concentration/Deposition (PEC)	2	21.12	1.72	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site	No sensitive habitat or species at this site	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 200% Upper: 67%	n/a	n/a	-	-
EXCEEDANCE	Lower: 1.00 Upper: No exceedance	n/a	n/a	-	-

Project Notes

Closes Hall Farm Cattle Housing

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Content Specific Help Text

Site Information Little Mearley Clough (SSSI)

Country:	ENGLAND
Site Name:	Little Mearley Clough
Site Code:	1001446
Designation Status:	SSSI
Distance from Installation (m):	9505
Receptor Type:	Habitat
Grid Reference:	378138,441434
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.08	0.006	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.01578	0.08	0.006	-	-
Background concentration at receptor edge	1.19	19.72	1.622 (N: 1.409|S: 0.213)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.21	19.8	1.63	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	No sensitive habitat or species at this site	No sensitive habitat or species at this site	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 121% Upper: 40%	n/a	n/a	-	-
EXCEEDANCE	Lower: 0.21 Upper: No exceedance	n/a	n/a	-	-

Project Notes

Closes Hall Farm Cattle Housing

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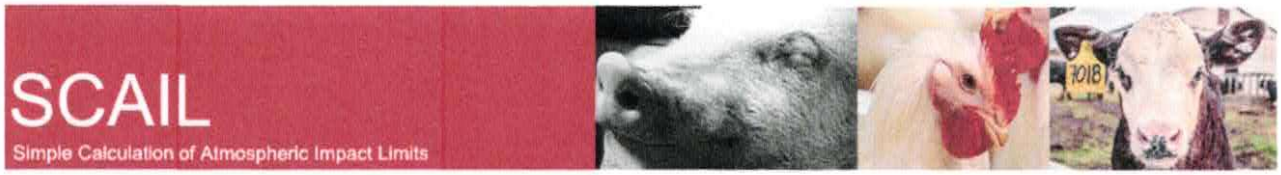

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Content Specific Help Text

Site Information Hesley Moss (SSSI)

Country:	ENGLAND
Site Name:	Hesley Moss
Site Code:	1006581
Designation Status:	SSSI
Distance from Installation (m):	9578
Receptor Type:	Habitat
Grid Reference:	378354,460031
Met Site:	HIGH
Run Mode:	Conservative
PM_{10} Percentile:	Average

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/m3)	Dep N (kg/ha/yr)	Dep Acid (kEq H+/ha/yr)	Conc PM_{10} (µg/m3)	Conc Odour (Ou/m3)
1	Cubicle Housing	1	1	-	2.3	-	0.02	0.08	0.005	-	-

Total Depositions/Concentrations and Exceedances

Concentrations/Depositions and Critical Loads/Levels	NH_3 (µg/m3)	N Dep. (kg N/ha/yr)	Acid Dep. (kEq H+/ha/yr)	PM_{10} (µg/m3)	Odour (Ou/m3)
Process Contribution (PC) at receptor edge	0.01557	0.08	0.006	-	-
Background concentration at receptor edge	1.35	19.71	1.607 (N: 1.408|S: 0.199)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.37	19.79	1.61	-	-
Environmental Assessment Level or Critical Load / Level	Lower: 1 Upper: 3	5.0 Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	maxN: 0.815 maxS: 0.494 minN: 0.321 Erica Tetralix - Sphagnum Papillosum Raised And Blanket Mire	-	-
		ALTERNATIVE CRITICAL LOAD INFO			
USE OWN THRESHOLDS?					
% of relevant standard PC	Lower: 2% Upper: 1%	2%	1%	-	-
% of relevant standard PEC	Lower: 137% Upper: 46%	396%	198%	-	-
EXCEEDANCE	Lower: 0.37 Upper: No exceedance	14.79	0.80	-	-

Project Notes

Closes Hall Farm Cattle Housing