

SCAIL ASSESSMENT – HIGHER GREENHEAD SLURRY LAGOON

The lagoon is required to allow 6 months slurry storage.

Cattle numbers will not increase.

SCAIL input data is provided as Appendix A

Results are shown as Appendix B

Results data is attached separately as an Excel File (output ~~14~~ 14)

A floating cover will be installed.

Native species tree planting will be carried out to the west and south

The prevailing wind (W – SW) directs deposition away from the closest protected sites.



SCAIL

Simple Calculation of Atmospheric Impact Limits

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March 18th, 2024: SCAIL background pollution maps for the UK have been updated to the the **years 2019-2021** in line with current APIS. We have also introduced a new Hybrid mode for users (see [User Guide](#) for details of how to use it).

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 Higher Greenhead Farm Lagoon

Project Run Mode ☐ Hybrid Met ☒ Conservative Met ☐ Realistic Met

Location Details

Select Country England

Installation Details

Installation 1

Installation Name HGH Lagoon

Installation Location 378607,446252 ☐ Landranger ☒ x,y[CHOOSE/VERIFY LOCATION](#)

Source Details

Source 1

Source ☐ Pig ☐ Poultry ☒ Cattle ☐ User defined emissions

New or Existing Source New

Source Name Lagoon

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

378607,446252 ☐ Landranger ☒ x,y[VERIFY LOCATION](#)

Source Type Litter / Manure storage

Type Slurry storage

Details Tank - with floating cover

Tonnes Fresh Manure (t) 4362

Area of Storage (m2) 1440

Number of storage days/year 180

Total emissions :

Pollutant	Source Emissions	Running total of all emission sources	Units
NH ₃ :	441	0	(kg)
PM ₁₀ :	0	0	(kg)
Odour:	0	0	(kOu)

GET EMISSIONS VALUES

Designated Site details:

Search Radius10km

13 found

VERIFICATION

RUN RECEPTOR SEARCH

VERIFICATION

Site No.	Name	Distance(km)	Designation	Country	Easting	Northing
1	Clitheroe Knoll Reefs	2.052	SSSI	ENGLAND	377487	444533
2	Salthill and Bellmanpark Quarries	4.076	SSSI	ENGLAND	376222	442947
3	New Ing Meadow	4.176	SSSI	ENGLAND	378765	450425
4	Coplow Quarry	4.524	SSSI	ENGLAND	375238	443232
5	Little Mearley Clough	4.825	SSSI	ENGLAND	377995	441466
6	Langcliff Cross Meadow	7.933	SSSI	ENGLAND	372720	451570
7	North Pennine Dales Meadows	7.933	SAC	ENGLAND	372720	451570
8	White Moss	8.033	SSSI	ENGLAND	379350	454251
9	Field Head Meadow	8.571	SSSI	ENGLAND	372564	452331
10	Standridge Farm Pasture	8.801	SSSI	ENGLAND	373470	453398
11	Bell Sykes Meadows	9.11	SSSI	ENGLAND	371927	452446
12	Light Clough	9.269	SSSI	ENGLAND	375120	437664
13	Barn Gill Meadow	9.917	SSSI	ENGLAND	373196	454562

User specified site

SelectAdd site

Site Name

Site Location

Landrangerx,y

VERIFICATION

Habitat within site

please select...

CHECK BACKGROUND LEVELS

Human Health Receptor Details

Receptor

SelectAdd Receptor

PM10 percentile

Annual mean

Receptor Name

Receptor Location

Landrangerx,y

VERIFICATION

CHECK BACKGROUND PM10 LEVELS

SAVE INPUT DATA

CLEAR FORM

CALCULATE

https://www.scaill.ceh.ac.uk/cgi-bin/agriculture/input.pl

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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): ⓘ

2052

Receptor Type:

Habitat

Grid Reference:

377487,444533

Met Site: ⓘ

HIGH

Run Mode: ⓘ

Conservative

PM₁₀ 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	HGH Lagoon	1	1	-	0.44	-	0.04	0.23	0.015	-	-

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	0.04363	0.23	0.016	-	-
Background concentration at receptor edge ⓘ	1.91	21.80	1.774 (N: 1.557 S: 0.217)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.95	22.03	1.79	-	-
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: 4% Upper: 1%	n/a	n/a	-	-
% of relevant standard PEC ⓘ	Lower: 195% Upper: 65%	n/a	n/a	-	-
EXCEEDANCE ⓘ	Lower: 0.95 Upper: No exceedance	n/a	n/a	-	-

Project Notes

Higher Greenhead Farm Lagoon

[SAVE RESULTS](#) ⓘ [SAVE INPUTS](#) ⓘ

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

BACK ⓘ



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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):	4076
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	HGH Lagoon	1	1	-	0.44	-	0.01	0.07	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	0.01414	0.07	0.005	-	-
Background concentration at receptor edge	1.92	22.21	1.811 (N: 1.586 S: 0.224)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.93	22.28	1.82	-	-
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: 1% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC	Lower: 193% Upper: 64%	n/a	n/a	-	-
EXCEEDANCE	Lower: 0.93 Upper: No exceedance	n/a	n/a	-	-

Project Notes

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Simple Calculation of Atmospheric Impact Limits



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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): ⓘ	4176	
Receptor Type:	Habitat	
Grid Reference:	378765,450425	
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	HGH Lagoon	1	1	-	0.44	-	0.01	0.07	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	0.01359	0.07	0.005	-	-
Background concentration at receptor edge ⓘ	2.05	21.57	1.747 (N: 1.540 S: 0.206)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	2.06	21.64	1.75	-	-
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: 1% Upper: 0%	1%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 206% Upper: 69%	216%	35%	-	-
EXCEEDANCE ⓘ	Lower: 1.06 Upper: No exceedance	11.64	-3.32	-	-

Project Notes



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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): ⓘ

4524

Receptor Type:

Habitat

Grid Reference:

375238,443232

Met Site: ⓘ

HIGH

Run Mode: ⓘ

Conservative

PM₁₀ 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	HGH Lagoon	1	1	-	0.44	-	0.01	0.06	0.004	-	-

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	0.01192	0.06	0.004	-	-
Background concentration at receptor edge ⓘ	2.20	22.38	1.825 (N: 1.599 S: 0.226)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	2.21	22.44	1.83	-	-
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: 1% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC ⓘ	Lower: 221% Upper: 74%	n/a	n/a	-	-
EXCEEDANCE ⓘ	Lower: 1.21 Upper: No exceedance	n/a	n/a	-	-

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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): ⓘ

4825

Receptor Type:

Habitat

Grid Reference:

377995,441466

Met Site: ⓘ

HIGH

Run Mode: ⓘ

Conservative

PM₁₀ 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	HGH Lagoon	1	1	-	0.44	-	0.01	0.06	0.004	-	-

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	0.01073	0.06	0.004	-	-
Background concentration at receptor edge ⓘ	1.70	21.97	1.793 (N: 1.569 S: 0.224)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.71	22.03	1.8	-	-
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: 1% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC ⓘ	Lower: 171% Upper: 57%	n/a	n/a	-	-
EXCEEDANCE ⓘ	Lower: 0.71 Upper: No exceedance	n/a	n/a	-	-

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Higher Greenhead Farm Lagoon



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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): ⓘ	7933		
Receptor Type:	Habitat		
Grid Reference:	372720,451570		
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	HGH Lagoon	1	1	-	0.44	-	0	0.02	0.002	-	-

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	0.00478	0.03	0.002	-	-
Background concentration at receptor edge ⓘ	1.56	23.04	1.902 (N: 1.646 S: 0.256)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.56	23.07	1.9	-	-
Environmental Assessment Level or Critical Load / Level ⓘ	Lower: 1 Upper: 3 ⓘ	10.0 Anthoxanthum odoratum - Geranium sylvaticum Grassland ALTERNATIVE CRITICAL LOAD INFO ⓘ	maxN: 5.071 maxS: 4.000 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
USE OWN THRESHOLDS? ⓘ					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 156% Upper: 52%	231%	38%	-	-
EXCEEDANCE ⓘ	Lower: 0.56 Upper: No exceedance	13.07	-3.17	-	-

Project Notes



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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):	7933
Receptor Type:	Habitat
Grid Reference:	372720,451570
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	HGH Lagoon	1	1	-	0.44	-	0	0.02	0.002	-	-

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	0.00478	0.03	0.002	-	-
Background concentration at receptor edge	1.56	23.04	1.902 (N: 1.646 S: 0.256)	-	-
Predicted Environmental Concentration/Deposition (PEC)	1.56	23.07	1.9	-	-
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: 0% Upper: 0%	1%	0%	-	-
% of relevant standard PEC	Lower: 156% Upper: 52%	461%	39%	-	-
EXCEEDANCE	Lower: 0.56 Upper: No exceedance	18.07	-2.95	-	-

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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): ⓘ	8033	
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	HGH Lagoon	1	1	-	0.44	-	0	0.02	0.002	-	-

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	0.00468	0.02	0.002	-	-
Background concentration at receptor edge ⓘ	1.83	22.08	1.791 (N: 1.577 S: 0.214)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.83	22.1	1.79	-	-
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: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 183% Upper: 61%	442%	245%	-	-
EXCEEDANCE ⓘ	Lower: 0.83 Upper: No exceedance	17.10	1.06	-	-

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Higher Greenhead Farm Lagoon



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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): ⓘ

8571

Receptor Type:

Habitat

Grid Reference:

372564,452331

Met Site: ⓘ

HIGH

Run Mode: ⓘ

Conservative

PM₁₀ 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	HGH Lagoon	1	1	-	0.44	-	0	0.02	0.001	-	-

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	0.00421	0.02	0.002	-	-
Background concentration at receptor edge ⓘ	1.60	22.47	1.857 (N: 1.605 S: 0.252)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.6	22.49	1.86	-	-
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: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 160% Upper: 53%	225%	37%	-	-
EXCEEDANCE ⓘ	Lower: 0.60 Upper: No exceedance	12.49	-3.21	-	-

Project Notes



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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):  8801

Receptor Type: Habitat

Grid Reference: 373470,453398

Met Site:  HIGH

Run Mode:  Conservative

PM₁₀ 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	Lagoon	1	1	-	0.44	-	0	0.02	0.001	-	-

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	0.00403	0.02	0.002	-	-
Background concentration at receptor edge 	1.56	22.48	1.856 (N: 1.606 S: 0.250)	-	-
Predicted Environmental Concentration/Deposition (PEC) 	1.56	22.5	1.86	-	-
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: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC 	Lower: 156% Upper: 52%	225%	36%	-	-
EXCEEDANCE 	Lower: 0.56 Upper: No exceedance	12.50	-3.36	-	-

Project Notes



Results

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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): ⓘ	9110	
Receptor Type:	Habitat	
Grid Reference:	371927,452446	
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	Lagoon	1	1	-	0.44	-	0	0.02	0.001	-	-

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	0.00381	0.02	0.001	-	-
Background concentration at receptor edge ⓘ	1.57	22.61	1.874 (N: 1.615 S: 0.259)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.57	22.63	1.88	-	-
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: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 157% Upper: 52%	226%	37%	-	-
EXCEEDANCE ⓘ	Lower: 0.57 Upper: No exceedance	12.63	-3.20	-	-

Project Notes

Higher Greenhead Farm Lagoon



Results

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Content Specific Help Text

Site Information Light Clough (SSSI) ▼ ⓘ

Country:

ENGLAND

Site Name:

Light Clough

Site Code: ⓘ

1001428

Designation Status: ⓘ

SSSI

Distance from Installation (m): ⓘ

9269

Receptor Type:

Habitat

Grid Reference:

375120,437664

Met Site: ⓘ

HIGH

Run Mode: ⓘ

Conservative

PM₁₀ 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	Lagoon	1	1	-	0.44	-	0	0.02	0.001	-	-

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	0.00370	0.02	0.001	-	-
Background concentration at receptor edge ⓘ	1.95	21.41	1.749 (N: 1.530 S: 0.219)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.95	21.43	1.75	-	-
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: 0% Upper: 0%	n/a	n/a	-	-
% of relevant standard PEC ⓘ	Lower: 195% Upper: 65%	n/a	n/a	-	-
EXCEEDANCE ⓘ	Lower: 0.95 Upper: No exceedance	n/a	n/a	-	-

Project Notes

Higher Greenhead Farm Lagoon



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): ⓘ	9917	
Receptor Type:	Habitat	
Grid Reference:	373196,454562	
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	Lagoon	1	1	-	0.44	-	0	0.02	0.001	-	-

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	0.00332	0.02	0.001	-	-
Background concentration at receptor edge ⓘ	1.48	22.65	1.874 (N: 1.618 S: 0.256)	-	-
Predicted Environmental Concentration/Deposition (PEC) ⓘ	1.48	22.67	1.88	-	-
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 DWN THRESHOLDS?					
% of relevant standard PC ⓘ	Lower: 0% Upper: 0%	0%	0%	-	-
% of relevant standard PEC ⓘ	Lower: 148% Upper: 49%	227%	37%	-	-
EXCEEDANCE ⓘ	Lower: 0.48 Upper: No exceedance	12.67	-3.20	-	-

Project Notes

Higher Greenhead Farm Lagoon