

Proposed Livestock Accommodation Building

Gregsons Farm

Newsholme

BB7 4JF

SCAIL Analysis Impact Assessment Report

Prepared:

July 2026



WBW Surveyors Ltd
Skipton Auction Mart
Gargrave Road
Skipton BD23 1UD
+44 01756 692 900
www.wbwsurveyors.co.uk

1.1 Introduction

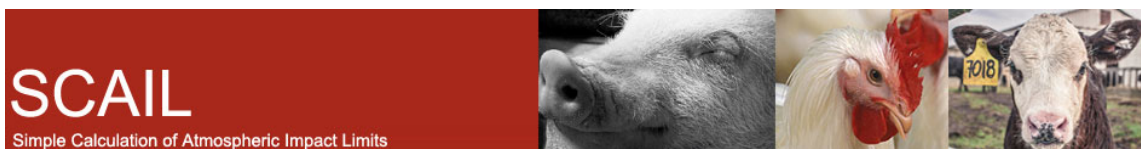
This report is prepared to accompany a full planning application for the erection of a livestock building at Gregsons Farm, Newsholme.

1.2 SCAIL Analysis Impact Assessment Report

Natural England consultation requires the potential for air quality impacts arising from this development needs to be assessed as the development falls within a SSSI Impact Risk Zone.

A SCAIL analysis assessment has been prepared to assess the air quality impacts of the development. The results are published within this report (1.3 below).

1.3 SCAIL Analysis Results



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): [?](#) 5570
 Receptor Type: Habitat
 Grid Reference: 378897,450593
 Met Site: [?](#) HIGH
 Run Mode: [?](#) Hybrid
 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/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	New Buildings	2	1	-	2.5	-	0.05	0.25	0.017	-	-

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	0.04788	0.25	0.018	-	-
Background concentration at receptor edge ?	1.61	19.35	1.612 (N: 1.425 S: 0.187)	-	-
Predicted Environmental Concentration/Deposition (PEC) ?	1.66	19.6	1.63	-	-
Environmental Assessment Level or Critical Load / Level ?	Lower: 1 Upper: 3 ?	10 Anthoxanthum odoratum - Geranium sylvaticum Grassland	maxN: 5.071 maxS: 4 minN: 1.071 Anthoxanthum odoratum - Geranium sylvaticum Grassland	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS?					
% of relevant standard PC ?	Lower: 5% Upper: 2%	3%	0.35%	-	-
% of relevant standard PEC ?	Lower: 166% Upper: 55%	196%	32%	-	-
EXCEEDANCE ?	Lower: 0.66 Upper: No exceedance	9.60	-3.44	-	-

Project Notes

New livestock building for dairy cattle

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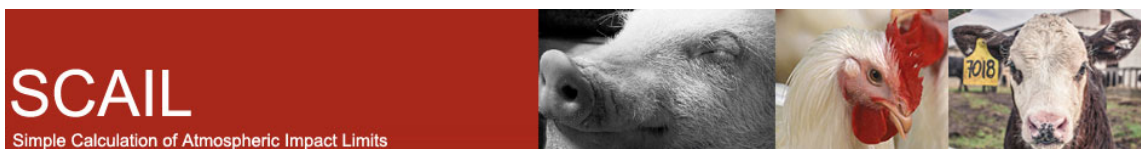


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Content Specific Help Text

Site Information Clitheroe Knoll Reefs (SSSI) ?

Country: ENGLAND
 Site Name: Clitheroe Knoll Reefs
 Site Code: ? 1000894
 Designation Status: ? SSSI
 Distance from Installation (m): ? 9440
 Receptor Type: Habitat
 Grid Reference: 379200,443702
 Met Site: ? HIGH
 Run Mode: ? Hybrid
 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/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	New Buildings	2	1	-	2.5	-	0.01	0.05	0.003	-	-

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	0.00988	0.05	0.004	-	-
Background concentration at receptor edge ?	1.25	19.33	1.637 (N: 1.424 S: 0.213)	-	-
Predicted Environmental Concentration/Deposition (PEC) ?	1.26	19.38	1.64	-	-
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: 126% Upper: 42%	n/a	n/a	-	-
EXCEEDANCE ?	Lower: 0.26 Upper: No exceedance	n/a	n/a	-	-

Project Notes

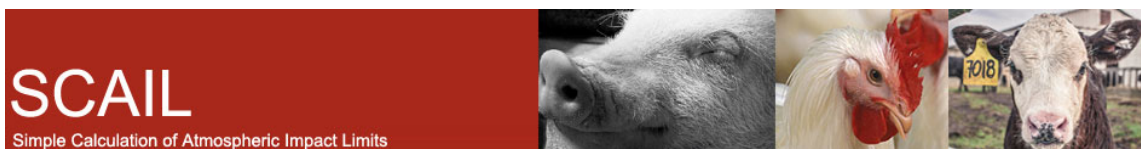
New livestock building for dairy cattle

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Content Specific Help Text

Site Information Haw Crag Quarry (SSSI) ?

Country: ENGLAND
 Site Name: Haw Crag Quarry
 Site Code: ? 1002031
 Designation Status: ? SSSI
 Distance from Installation (m): ? 8258
 Receptor Type: Habitat
 Grid Reference: 391209,456232
 Met Site: ? HIGH
 Run Mode: ? Hybrid
 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/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	New Buildings	2	1	-	2.5	-	0.01	0.07	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	0.01281	0.07	0.005	-	-
Background concentration at receptor edge ?	1.81	19.03	1.583 (N: 1.401 S: 0.181)	-	-
Predicted Environmental Concentration/Deposition (PEC) ?	1.82	19.1	1.59	-	-
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: 182% Upper: 61%	n/a	n/a	-	-
EXCEEDANCE ?	Lower: 0.82 Upper: No exceedance	n/a	n/a	-	-

Project Notes

New livestock building for dairy cattle

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Simple Calculation of Atmospheric Impact Limits



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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): ? 4224
Receptor Type: Habitat
Grid Reference: 384839,455795
Met Site: ? HIGH
Run Mode: ? Hybrid
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/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	New Buildings	2	1	-	2.5	-	0.03	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	0.03397	0.18	0.013	-	-
Background concentration at receptor edge ?	1.76	19.78	1.637 (N: 1.456 S: 0.180)	-	-
Predicted Environmental Concentration/Deposition (PEC) ?	1.79	19.96	1.65	-	-
Environmental Assessment Level or Critical Load / Level ?	Lower: 1 Upper: 3 ?	15 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: 179% Upper: 60%	133%	n/a	-	-
EXCEEDANCE ?	Lower: 0.79 Upper: No exceedance	4.96	n/a	-	-

Project Notes

New livestock building for dairy cattle

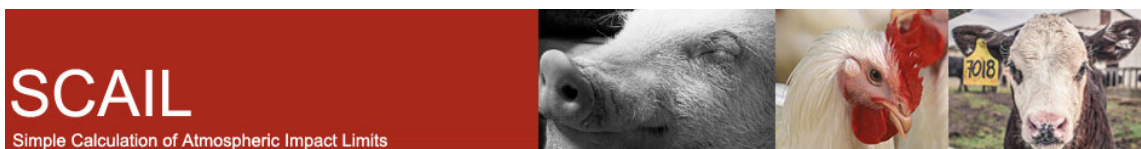
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Content Specific Help Text

Site Information River Ribble (Long Preston Deeps) (SSSI) [?](#)

Country: ENGLAND
 Site Name: River Ribble (Long Preston Deeps)
 Site Code: [?](#) 1003025
 Designation Status: [?](#) SSSI
 Distance from Installation (m): [?](#) 5934
 Receptor Type: Habitat
 Grid Reference: 382418,457199
 Met Site: [?](#) HIGH
 Run Mode: [?](#) Hybrid
 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/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	New Buildings	2	1	-	2.5	-	0.04	0.19	0.013	-	-

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	0.03623	0.19	0.014	-	-
Background concentration at receptor edge ?	1.60	18.89	1.566 (N: 1.391 S: 0.175)	-	-
Predicted Environmental Concentration/Deposition (PEC) ?	1.64	19.08	1.58	-	-
Environmental Assessment Level or Critical Load / Level ?	Lower: 1 Upper: 3 ?	15 Lowland fen without open water	No sensitive habitat or species at this site	-	-
ALTERNATIVE CRITICAL LOAD INFO					
USE OWN THRESHOLDS? ?					
% of relevant standard PC ?	Lower: 4% Upper: 1%	1%	n/a	-	-
% of relevant standard PEC ?	Lower: 164% Upper: 55%	127%	n/a	-	-
EXCEEDANCE ?	Lower: 0.64 Upper: No exceedance	4.08	n/a	-	-

Project Notes

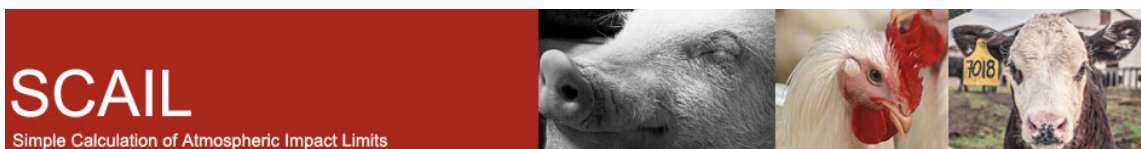
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Content Specific Help Text

Site Information White Moss (SSSI) ?

Country: ENGLAND
 Site Name: White Moss
 Site Code: ? 1002735
 Designation Status: ? SSSI
 Distance from Installation (m): ? 5682
 Receptor Type: Habitat
 Grid Reference: 379364,454276
 Met Site: ? HIGH
 Run Mode: ? Hybrid
 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/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	New Buildings	2	1	-	2.5	-	0.05	0.24	0.016	-	-

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	0.04659	0.24	0.017	-	-
Background concentration at receptor edge ?	1.52	19.78	1.649 (N: 1.456 S: 0.193)	-	-
Predicted Environmental Concentration/Deposition (PEC) ?	1.57	20.02	1.67	-	-
Environmental Assessment Level or Critical Load / Level ?	Lower: 1 Upper: 3 ?	5 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: 5% Upper: 2%	5%	2.32%	-	-
% of relevant standard PEC ?	Lower: 157% Upper: 52%	400%	228%	-	-
EXCEEDANCE ?	Lower: 0.57 Upper: No exceedance	15.02	0.93	-	-

Project Notes

New livestock building for dairy cattle

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1.4 Assessment

The development site is contained within a SSSI Impact Risk Zone but is not contained within a SSSI designation. The results of the SCAIL analysis in relation to SSSI sites within a 10 km radius confirm that the exceedance levels for NH3 are less than 1.00.

1.5 Conclusion

The proposed development will house dairy cows that are already on the holding and there will be no increase in dairy cow numbers. The necessity of the development arises from the need to relocate the dairy replacements that are currently reared off farm back onsite and the dairy herd is currently housed in dated facilities with cubicles that are too small, and passages that are too narrow.

The exceedance levels of the SCAIL analysis account for the cow movements and numbers of cows to be housed on the unit. The exceedance levels indicate that there will be no adverse impacts on the nearby SSSI designations. It is concluded that no further assessment is required.