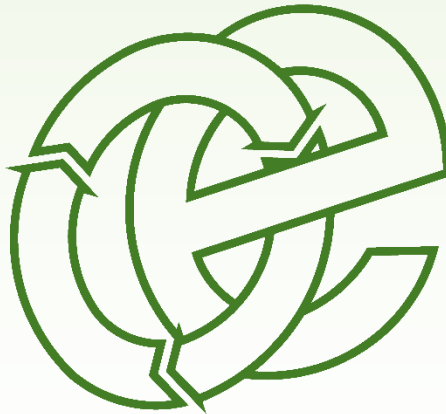


CHEQUERHOUSE FARM DUST MANAGEMENT PLAN

Chequerhouse Farm Limited

VERSION:	1.2	DATE:	19 December 2019		
DOC. REF:	4172-098-I	AUTHOR:	DY	CHECKED:	
CLIENT NO:	098	JOB NO:	4172		



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Document History:

<i>Version</i>	<i>Issue date</i>	<i>Author</i>	<i>Checked</i>	<i>Description</i>
1.0	10/09/2019	DY		Draft for client approval
1.1	25/09/2019	DY		Application copy
1.2	19/12/2019	DY		Updated in response to email from EA dated 17/12/2019

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1 **Summary**

1.1 This document contains a Dust Management Plan (DMP) (including bioaerosols) for Chequerhouse Farm. This has been required by the Environment Agency (EA) since there are sensitive receptors located within 100m of the proposed installation boundary. An application is being submitted for a poultry farm with a stocking capacity of up to 252,000 broilers. This DMP outlines dust control measures that will be used by the site operator to control potential impacts.

1.2 The purpose of this DMP is as follows:

- Identify the potential sources of dust and bioaerosols arising from the farm; and,
- Identify appropriate measures to control potential risk from dust and bioaerosols.

1.3 The following guidance has been consulted during completion of this DMP:

- How to Comply with your Environmental Permit for Intensive Farming, Version 2, EA, January 2010.

2 Site Context

- 2.1 Reference should be made to Appendix I for the site location and proposed permit boundary plan. The farm is located off Thievesdale Lane. The site is in a rural location, ideally suited to this form of development. The farm is accessed via Thievesdale Lane.
- 2.2 There are two properties within 100m of the installation boundary. This includes two properties adjacent to the permit boundary to the South-West/West. These are not located predominantly downwind. As such, any residual dust is likely to be carried away from these properties. Furthermore, these properties will be under the control of the applicant, used to house farm workers. Satellite views of the site reveal that the surrounding land is dominated by agricultural use with potential manure spreading activities and other scattered livestock units in the vicinity. Furthermore, it is understood the existing site is used for cattle farming with ageing structures. Therefore, there are already similar sources of potential dust in the vicinity of the site. Table 1 below identifies receptors within 100m of the permit boundary. The closest receptors (D1 and D2) are located predominantly upwind of the proposed poultry houses. As such, potential for dust impacts will not be as significant as in downwind locations. This DMP has identified dust mitigation measures which are considered sufficient to control potential dust impacts at sensitive receptor locations.

Table 1 Receptors within 100m of Installation Boundary

Receptor Identifier	Receptor Name	Distance from Installation Boundary	Direction from Boundary	NGR	Type of Receptor
D1	Farm worker cottage	Adjacent	West	464029, 381681	Residential
D2	Farm worker cottage	Adjacent	West	464004, 381685	Residential

3 Dust Sources and Control

3.1 Overview

3.1.1 This DMP provides detailed information on proposed dust control measures at the farm to ensure that dust and bioaerosols are controlled as far as is possible.

3.1.2 The principal sources of dust and bioaerosols at the farm are as follows:

- Feed delivery and storage;
- Litter management on site;
- Ventilation system;
- Poultry carcass disposal;
- House clean out operations;
- House washdown water management;
- Manure management; and,
- Biomass boilers – storage of biomass and residual emissions (boilers to be installed subject to viability/feasibility).

3.1.3 The following table details dust management methods that will be used, with reference to the relevant guidance.

Table 2 Dust and Bioaerosol Management Plan

Source of Dust/Bioaerosol	Receptor	Actions Taken to Minimise Risk	Completion Date
Dust from poultry feed	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • Feed delivery systems sealed to minimise atmospheric dust • Any spillage of feed around the bin will be immediately swept up • Feed bin condition to be checked regularly, on a daily basis • Fill pipes are to be checked during every delivery of feed • Feed silos enclosed to prevent dust release • Daily visual inspection of feed bins to be undertaken by site manager to check for obvious signs of damage or leaks. This will be supplemented by an annual inspection of equipment on site • Moulded feed pellets to be used • Feed to be delivered to internal hoppers via cross auger and drop pipe which drop fully into hoppers • Feed pans to be used in all poultry houses 	Commencement of operation

Source of Dust/Bioaerosol	Receptor	Actions Taken to Minimise Risk	Completion Date
Bedding and litter	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • There will be no storage of used litter outside the houses at any time • Wood shavings/chips to be used for bedding which has a lower dust potential than straw • Bedding material to be applied to a significant depth to reduce dust potential • Extraction (ventilation) equipment is not to be used during the placement of bedding to minimise potential dust • Catching curtains to be used during unloading of bedding to poultry houses to minimise dust escape 	Commencement of operation
Ventilation	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • The proposed poultry houses are to be fitted with high velocity roof exhaust fans, optimising dilution and dispersion of residual dust • Ventilation system regularly adjusted to meet the requirements of the flock • Exhaust vents are to be cleaned during house cleanout periods, which is undertaken by washing without the fan being in use, to prevent emissions to air or water 	Commencement of operation

Source of Dust/Bioaerosol	Receptor	Actions Taken to Minimise Risk	Completion Date
House cleaning	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • Litter to be placed in covered trailers as soon as it is removed from house • House washdown water to be collected in sealed underground tanks, preventing release of dusty compounds to air, or water external to the sheds • Manure not to be stored outside the poultry houses at any time, removed from site and exported to a power station for energy recovery 	Commencement of operation
Stocking	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • House stocking levels will accord to the relevant welfare standards to prevent overcrowding • During stock inspections and bird catching, catching curtains are to be used to minimise potential dust emission 	Commencement of operation
Poultry carcass disposal	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • Poultry carcasses will be placed in a specialised enclosed cold store immediately after removal from houses • Poultry carcasses to be removed from site on a regular basis 	Commencement of operation

Source of Dust/Bioaerosol	Receptor	Actions Taken to Minimise Risk	Completion Date
Storage and handling of biomass	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • Wood chip storage enclosed to prevent fugitive release of dust • Drop heights will be minimised during materials transfer, where possible • In the event of biomass spillage, this will be immediately cleaned using appropriate measures 	Commencement of operation
Biomass combustion	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • Strict limits on particulate matter emissions, in order to comply with Renewable Heat Incentive (RHI). Residual emissions of dust emitted via elevated flues, optimising dilution and dispersion of residual dust emissions, minimising potential for off-site impacts 	Commencement of operation
All	Residential properties within 100m of farm boundary	<ul style="list-style-type: none"> • Full complaints procedure implemented on farm to ensure comprehensive investigation of complaints received in relation to dust – detailed in Appendix III of this DMP 	Commencement of operation

Appendix I

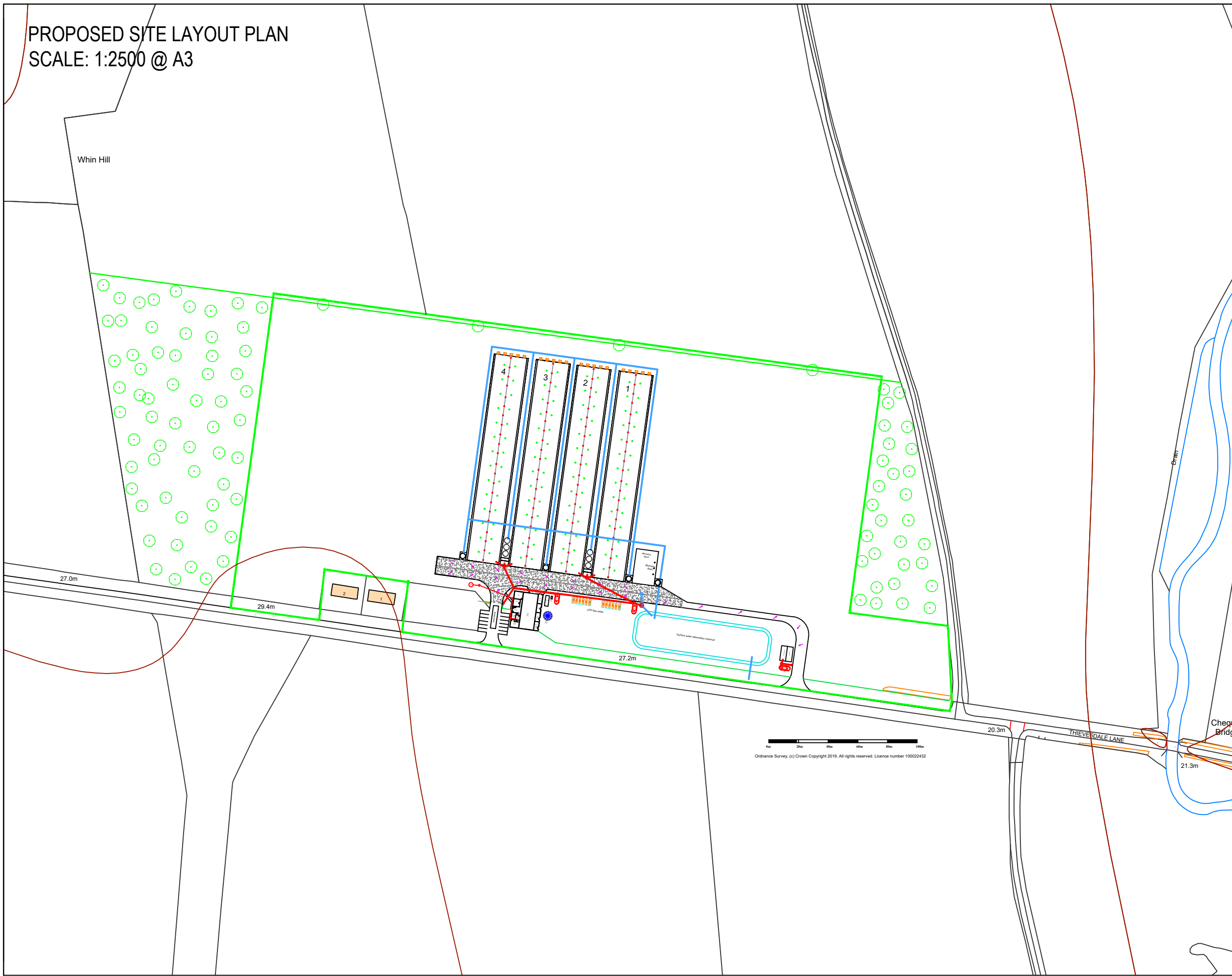
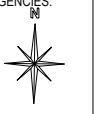
Site Layout Plans

PROPOSED SITE LAYOUT PLAN
SCALE: 1:2500 @ A3

- NOTES:**
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LEGEND

- Kerbs
- Falls / gradients
- Air Inlet Duct
- HV Exhaust fan
- Tunnel Fan (occasional use)
- Biomass boiler flue
- Feed Storage Silos
- Water Storage Tank
- Gas Tank
- Sewage Treatment Plant
- Dirty Water Tank
- Diverter Valve
- Dirty Water Inspection Chamber
- Rainwater Inspection Chamber
- Rainwater soakaway
- French Drain - Rainwater - Existing
- French Drain - Rainwater - Proposed
- Drain - Rainwater - Existing
- Drain - Rainwater - Proposed
- Drain - Dirty Water - Existing
- Drain - Dirty Water - Proposed
- Foul Drain - Existing/Proposed
- Application Boundary



Rev	Date	Description
MARTIN FINCH + CO		
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<small>T: 01584 823406 / 07768 721400</small>		
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<small>CALIFORNIA, HAYTONS BENT, LUDLOW, SYB 2AS</small>		

CLIENT
CHEQUERHOUSE FARM LTD

PROJECT
CHEQUERHOUSE FARM
 Thievesdale Lane
 RANBY
 Retford
 DN22 8JA

DRAWING TITLE
PROPOSED SITE LAYOUT PLAN

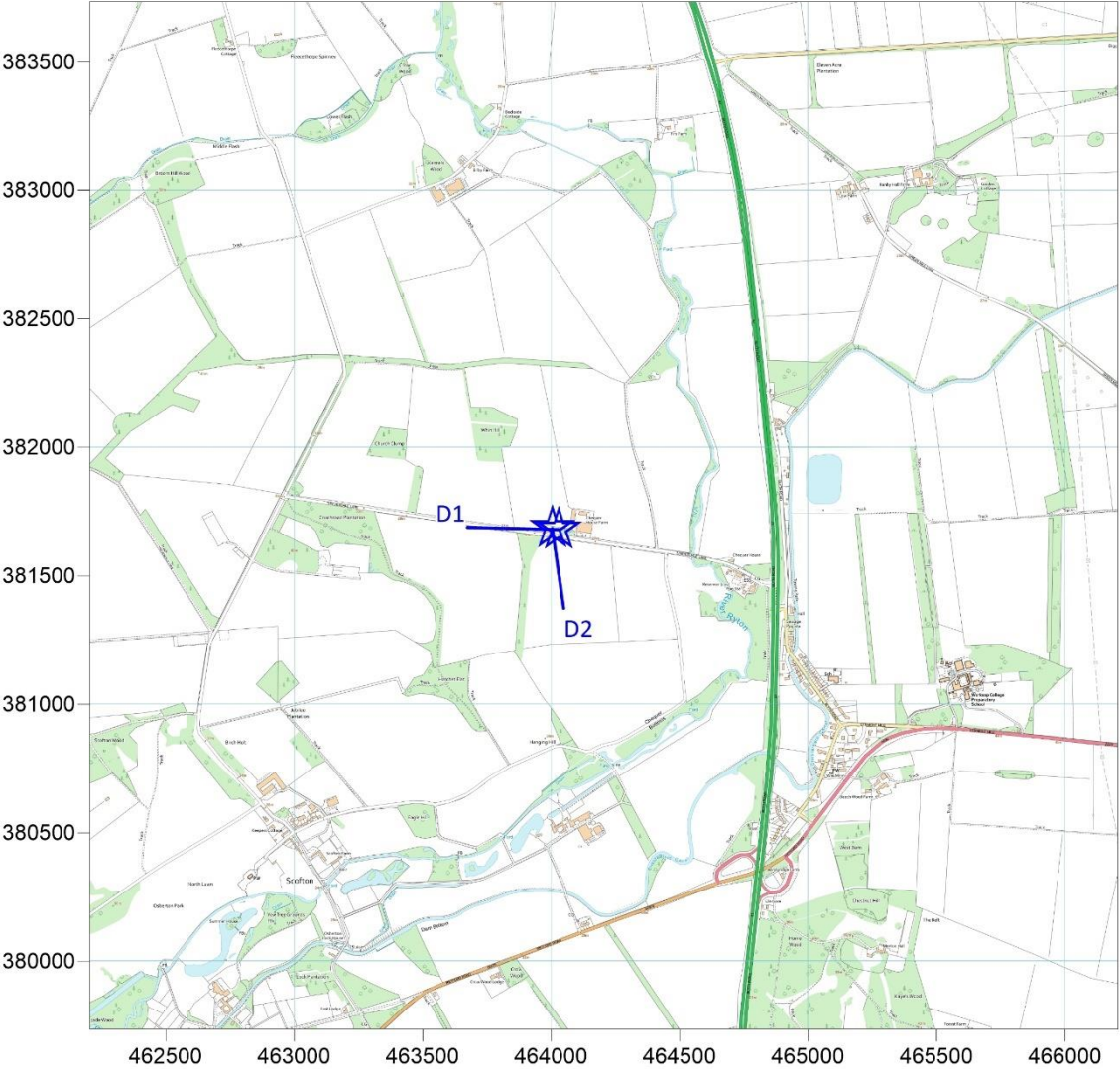
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DRAWING NO.	REV
MFC125 A 02 31	-


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Appendix II

Sensitive Receptor Locations



Dust Sensitive Receptors within 100m of Proposed Permit Boundary

-  Dust Receptor Location

- D1** Dust Receptor Identifier

Oaktree Environmental Ltd
Lime House
2 Road Two
Winsford
Cheshire
CW7 3QZ



N.B - Map contains Ordnance Survey data
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Appendix III

Complaints Procedure

DOCUMENT NO. 4172-098-D – CHEQUERHOUSE FARM COMPLAINTS

PROCEDURE

Complaint recording procedure.

- 1) Any complaints received in relation to noise, odour or dust will be recorded on the form below. This form will normally be completed, signed and dated by the site operator, if they are not available, the Office Manager will complete the form.
- 2) The name, address and telephone number of the caller will be requested.
- 3) Each complaint will be given a reference number.
- 4) The caller will be asked to give details of:
 - the nature of the complaint;
 - the time;
 - how long it lasted;
 - how often it occurs;
 - is this the first time the problem has been noticed; and,
 - what prompted them to complain.
- 5) The person completing the form will then, if possible, make a note of :
 - the weather conditions at the time of the problem (rain snow fog etc.)
 - strength and direction of the wind; and,
 - the activity on the installation at the time the noise, dust or odour was detected, particularly anything unusual.
- 6) The reason for the complaint will be investigated and a note of the findings added to the report.
- 7) The caller will then be contacted with an explanation of the source of the complaint if identified and the action taken to prevent a recurrence of the problem in future.
- 8) If the caller is unhappy about the outcome or unwilling to identify themselves the caller will be referred to the Environment Agency.

Following any complaint the complaints procedure will be reviewed to see if any changes are required or if new procedures need to be put in place.

**Chequerhouse Farm
Complaints Report Form**

Date Recorded	Reference Number
Name and address of caller	
Telephone number of caller	
Time and Date of call	
Nature of complaint (noise, odour, dust, other) (date, time, duration)	
Weather at the time of complaint (rain, snow, fog, etc.)	
Wind (strength, direction)	
Any other complaints relating to this report	
Any other relevant information	
Potential reasons for complaint	
The operations being carried out on site at the time of the complaint	
Follow Up	
Actions taken	
Date of call back to complainant	
Summary of call back conversation	
Recommendations	
Change in procedures	
Changes to Written Management System	
Date changes implemented	
Form completed by	
Signed	
Date completed	