

wardell-armstrong.com

ENERGY AND CLIMATE CHANGE
ENVIRONMENT AND SUSTAINABILITY
INFRASTRUCTURE AND UTILITIES
LAND AND PROPERTY
MINING AND MINERAL PROCESSING
MINERAL ESTATES
WASTE RESOURCE MANAGEMENT



STOREFIELD GROUP LIMITED

PHOENIX PARKWAY

DUST MANAGEMENT PLAN

JANUARY 2024

DATE ISSUED: JANUARY 2024
JOB NUMBER: GM11841
REPORT NUMBER: 003
VERSION: V1.0
STATUS: FINAL

STOREFIELD GROUP LIMITED

PHOENIX PARKWAY

DUST MANAGEMENT PLAN

JANUARY 2024

PREPARED BY:

Dominiqua Drakeford-Allen Principal Waste & Resource
Consultant



APPROVED BY:

Alison Cook Technical Director



This report has been prepared by Wardell Armstrong LLP with all reasonable skill, care and diligence, within the terms of the Contract with the Client. The report is confidential to the Client and Wardell Armstrong LLP accepts no responsibility of whatever nature to third parties to whom this report may be made known.

No part of this document may be reproduced without the prior written approval of Wardell Armstrong LLP.



CONTENTS

1	INTRODUCTION	1
2	SITE SETTING AND ENVIRONMENTAL RISK.....	2
3	POTENTIAL SOURCES OF DUST	5
4	DUST MANAGEMENT	6
5	MONITORING	11
6	COMPLAINTS PROCEDURE	12
7	REVIEW AND RESPONSIBILITY.....	13

APPENDICES

Appendix 1	Daily Dust Inspection Sheet
Appendix 2	Dust Complaint Log

DRAWINGS	TITLE	SCALE
GM10604-014	Application Site Location	As shown on drawing

DOCUMENT CONTROL

The following table is used to track changes and updates to the Dust Management Plan.

Version	Issued	Changes	Approver Initials
1 (Original)	January 2024	N/A – original	DDA

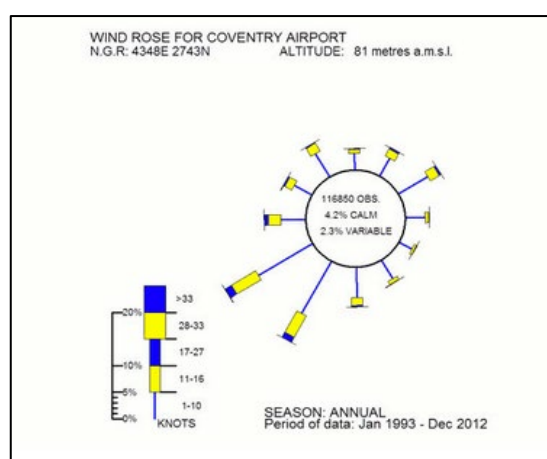
1 INTRODUCTION

- 1.1.1 The Storefield Group Ltd (Storefield) has commissioned Wardell Armstrong LLP to prepare an environmental permit application for their proposed development in Corby, North Northamptonshire.
- 1.1.2 The Site has been identified as a strategic site for employment development within local planning policy. In order to make the site suitable for use as an industrial and commercial development, Storefield propose to raise and level the site to create a suitable load-bearing development platform.
- 1.1.3 The site was formally a liquid waste treatment facility, for which the permit has been surrendered. Additionally, the site is also partially located on a landfill site which is currently in formal closure. Prior to this, the site was quarried to remove material for use in the Corby Integrated Iron and Steel works.
- 1.1.4 It is proposed that the development platform will be constructed of approximately 686,000m³ of suitable waste materials. The scheme has been designed to require the minimum volume of suitable waste materials, which will be recovered through the permanent deposit of these materials.
- 1.1.5 The purpose of the Dust Management Plan (DMP) is to identify potential dust sources from site activities and describe the dust control measures that are to be implemented.
- 1.1.6 Section 2 details the site setting and the activities that are to be undertaken at the site.
- 1.1.7 Section 3 details the potential sources of dust from site activities.
- 1.1.8 Section 4 describes the operational controls that will be in place to ensure that the production of dust is minimised.
- 1.1.9 Section 5 provides details of monitoring that will be undertaken at the site.
- 1.1.10 Section 6 sets out the site complaint procedure.
- 1.1.11 Section 7 confirms that this plan will be subject to regular review by an appropriately trained person.

2 SITE SETTING AND ENVIRONMENTAL RISK

2.1 Site Location and Setting

- 2.1.1 The site is situated north of Willowbrook Industrial Estate, near to Corby Town, North Northamptonshire. The site is centred at SP 90128 90860 and the nearest postcode is NN17 5BE.
- 2.1.2 The site location is shown on drawing GM10604-14.
- 2.1.3 The site is approximately 20.5 ha in size, and currently comprises of scrubland, incorporating a closed former landfill (Corby Tubeworks), which is in formal closure. Additionally, there is an area of land which was formerly permitted as a liquid waste treatment facility. The Waste Management Licence originally issued for the landfill did not require the landfill to be capped nor specify a final restoration profile.
- 2.1.4 The site is bound to the south by the river Willow Brook North, with Willowbrook East Industrial Estate adjacent to the southern boundary of the site. An area of scrubland with a commercial development sits between the area and the Phoenix Parkway Road. Earlstrees Industrial Estate sits approximately 370m west of the permit boundary.
- 2.1.5 To the north, Mitchell Road runs parallel to the site boundary and forms a route from Phoenix Parkway to Rockingham Motor Speedway. Beyond Mitchell Road there are several industrial and commercial premises, breaking into more rural setting beyond these. An area of vegetation borders the east of the site.
- 2.1.6 The nearest residential properties are located approximately 750m southwest of the site boundary on Pen Green Lane, beyond Phoenix Parkway and a railway line.
- 2.1.7 There are no European Sites including Ramsar Sites, Special Areas of Conservation (SACs), Special Protection Areas (SPAs), or Sites of Special Scientific Interest (SSSIs) within 2km of the site. The nearest SSSI is Cowthick Quarry SSSI, located approximately 3km to the southeast.
- 2.1.8 There is a Local Wildlife Site within 200m of the site boundary, and records show that there may be Great Crested Newts in proximal location to the site.
- 2.1.9 The site is not within an AQMA.
- 2.1.10 Available average wind direction data from the Met Office indicates that the dominant wind direction is from the southwest, as shown in Plate 1 below.



**Plate 1: Wind Rose for Coventry Airport showing Average Wind Direction
(January 1993 to December 2012)**

2.2 Source-Pathway Receptor Conceptual Model

2.2.1 A source-pathway-receptor conceptual model has identified the likely dust risk to sensitive receptors, as detailed in Table 2.1 below.

Table 2.1: Source-pathway-receptor Conceptual Site Model			
Source	Pathway	Receptor	Control Measure
Open air stockpiles of wastes	Airbourne Wind whipping of dusty materials	Local residents, nearby habitats	Minimising the stockpiling of material as far as possible Dampening of dry material with water
Vehicle Movements	Airborne Tracked out of the site by vehicles	Local residents, nearby habitats	Maintain clean surfaces Dampening or sweeping of site roads where necessary
Unloading/loading of materials	Airbourne Windy whipping of dusty materials	Local residents, nearby habitats	Minimising drop heights Dampening where necessary
Fugitive Emissions	Airbourne Wind whipping of dusty materials	Local residents, nearby habitats	Dampening where necessary Maintaining site plant and equipment Lorries required to be sheeted.

2.3 Site Activities

- 2.3.1 It is proposed that the development platform will be constructed via a cut and fill activity, the fill comprising of 695,448m³ approximately 686,000m³ of which will be suitable imported waste materials with the rest sourced on site.
- 2.3.2 The engineering and enabling works are anticipated to be worked in two phases, over a period of four to five years. Phase 1 is expected to comprise the area to the south of the access road from Phoenix Parkway, and Phase 2 is expected to be to the north of the access road, as shown on the phased development drawing GM10604-008.
- 2.3.3 The wastes to be deposited comprise of inert materials and Incinerator Bottom Ash (IBA). Due to the nature of the waste materials and associated activities; unloading/tipping, temporary stockpiling and vehicle movements, there is a potential for dust to be generated.

3 POTENTIAL SOURCES OF DUST

3.1.1 The potential sources of dust associated with the site activities are as follows:

- vehicle movements – delivery vehicles and mobile plant in and around the site;
- temporary waste stockpiles;
- loading and unloading activities; and
- material handling.

4 DUST MANAGEMENT

4.1 General

- 4.1.1 The potential for site operations to generate dust can be minimised by operating in accordance with the best practice measures to control and mitigate the generation of dust. The following measures will be implemented to prevent dust emissions as far as possible.

4.2 Waste Acceptance

- 4.2.1 Stringent waste acceptance procedures are to be implemented at the site, ensuring that only suitable wastes will be accepted for use for deposit.
- 4.2.2 Lorries entering the site will be required to be sheeted as appropriate to minimise dust emissions from delivery vehicles.
- 4.2.3 All deliveries of materials will be subject to visual inspection by site staff prior to being directed into the tipping area.
- 4.2.4 Any loads containing excessively dusty material will be prevented from tipping and rejected from the site.
- 4.2.5 Drop heights will be minimised as far as possible to prevent dust emissions when unloading/tipping.
- 4.2.6 Care will be taken when moving waste in the event of dry and windy conditions to prevent the generation of dust.
- 4.2.7 Staff will sweep any areas where dust material has collected on access roads, using brushes or a road sweeper will be hired if necessary.
- 4.2.8 Internal site roads will be properly maintained to minimise mud and dust generation.
- 4.2.9 A bowser will be utilised to dampen materials and surfaces in the event that dust is generated during tipping.

4.3 Infrastructure

- 4.3.1 Access tracks and turning points will be constructed with reinforced concrete slab.
- 4.3.2 Areas in the site compound that are not hard surfaces shall either be grassed or surfaced with coarse granular material to prevent the generation of dust.
- 4.3.3 Any repairs to internal site tracks will be carried out using suitable materials.

- 4.3.4 The new road from the reception to the site shall comprise of inert hardcore material and shall be at least 3.5m wide.
- 4.3.5 A wheel wash will be provided at the site exit to ensure that all mud and debris are removed from the vehicles before they leave the site. The wheel wash will comprise of an enclosed system that will recirculate wash water.
- 4.3.6 If the wheel wash facility falls into disrepair or is undergoing maintenance, and conditions are such that there is an increased likelihood of mud and/or dust being tracked off-site beyond the site boundary, then a road sweeper will be hired to clean the internal surfaced roads.
- 4.4 Transport
 - 4.4.1 The movement of plant and vehicles around the site provides a risk of potential dust emissions. Stringent measures are to be implemented to ensure that dust is not generated by movements of plant and vehicles.
 - 4.4.2 Site staff will direct vehicles to the tipping area following acceptance.
 - 4.4.3 A site speed limit of 10mph will be enforced to minimise the mobilisation of dust through vehicle movements.
 - 4.4.4 A one-way entrance and exit system will be implemented with access to the site; with vehicles accessing the site from the east (from Willowbrook Industrial Estate) and exiting by Napier Road in the west. This will limit the route out of the site to one road, limiting the potential spread of tracked out mud/dust from vehicles exiting the site.
 - 4.4.5 All loaded vehicles entering or exiting the site will be enclosed, sheeted or covered.
 - 4.4.6 Site plant will have upward facing exhausts and radiator cowls to reduce the generation of dust.
 - 4.4.7 Plant will be switched off when not in use.
- 4.5 Visual Inspection
 - 4.5.1 Site staff will maintain a visual awareness for emissions of dust throughout the working day.
 - 4.5.2 Working areas of the site will be visually inspected at least once per day to identify any accumulations of dusty material.

- 4.5.3 The site access road will be monitored throughout the working day for presence of any dusty material or mud.
- 4.5.4 In the event that accumulations of dust are identified, or airborne dust is observed onsite, a member of staff will undertake cleaning and dampening as required. A mechanically propelled road sweeper will be hired if dust deposits on the road are substantial.
- 4.5.5 The Site Manager will be notified in the event that abnormal levels of dust are generated and/or off-site deposition is occurring.
- 4.5.6 A record will be made in the Daily Dust Inspection Sheet (provided in Appendix 1) of the source of the dust emissions and the remediation measures that were implemented.
- 4.5.7 Additional measures (e.g. use of the bowser, pause of the activities) will be employed based on weather conditions (i.e. high wind speeds during periods of dry weather) and visually observed by site staff.
- 4.6 Infrastructure
 - 4.6.1 Clean water only will be used for dust suppression to avoid the recirculation of fine material.
 - 4.6.2 Site roads will be kept in a clean state and any deposits of mud and dust identified will be removed by site staff.
 - 4.6.3 A speed limit of 10mph will be enforced for vehicles on site.
 - 4.6.4 Mobile plant will be cleaned at the end of the working day.
 - 4.6.5 Site staff will maintain an awareness of meteorological conditions throughout the working day. In the event of prolonged high temperatures and dry conditions, increased dampening of roads, surfaces and materials may be undertaken to prevent the generation of dust.
 - 4.6.6 Plant and equipment on site will be subject to regular maintenance in accordance with the manufacturer's guidelines.
 - 4.6.7 Records of site inspections, testing and monitoring will be retained on-site and made available to the Environment Agency upon request.
 - 4.6.8 Incidents relating to dust emissions will be recorded in the site diary. Records will be made to the Environment Agency upon request.

4.7 Water Supply

- 4.7.1 If vehicle movements generate dust, a bowser will be used to dampen roads and surfaces where necessary. The bowser will be maintained on-site at all times, and be kept full to ensure timely execution when needed.
- 4.7.2 If mud is present from vehicle movements, site staff will undertake cleaning using the water bowser and/or brushing.
- 4.7.3 Continuous water suppression across the site is not considered necessary due to the low risk and existing control measures in place. Water suppression will be utilised as and when dust is visually detected in the airflow.
- 4.7.4 Instances where dampening is undertaken will be recorded in the site diary.

4.8 Training

- 4.8.1 Site staff will be made aware of their responsibilities in preventing the generation of dust during site operations.
- 4.8.2 All staff will receive training on how dust emissions can be prevented and emergency preparedness if planned dust mitigation fails.
- 4.8.3 Staff operating plant and equipment will receive training on potential dust sources and how to prevent emissions.
- 4.8.4 The performance of site staff and dust mitigation measures will be reviewed on a regular basis. High standards of housekeeping will be maintained at all times.
- 4.8.5 A physical copy of the Dust Management Plan will be retained on site at all times and made available to employees. A digital copy will also be held.

4.9 Emergency Procedures

- 4.9.1 If emissions of dust are observed to be originating from the site, the Site Manager will be notified, and mitigation measures implemented as soon as possible.
- 4.9.2 An investigation will be undertaken to determine the source of the dust emissions. Site staff will undertake visual inspections around the site, and once the source is determined, dampening or brushing will be undertaken as necessary.
- 4.9.3 If substantial amounts of dust are being produced at the site, site operations may cease and the Environment Agency contacted.

- 4.9.4 In the event of failure of equipment vital to the dust suppression, replacement equipment will be sourced promptly and maintained on site until the equipment is repaired or replaced.

5 MONITORING

5.1 Visual Monitoring

- 5.1.1 The implementation of the measures that are outlined in this plan will ensure that the risk of dust is minimised.
- 5.1.2 The risk of dust emissions is not deemed significant enough to warrant routine quantitative monitoring around the site. Daily visual inspections are considered to be sufficient. Should the situation change, due to works at the site generating dust emissions beyond the site boundary or persistent complaints, quantitative monitoring for deposition of dust (and airborne particulate matter if necessary) will be considered.
- 5.1.3 Visual monitoring for particulates will be undertaken at least once per working day. This will form part of the daily site inspection checks and a record will be made using the Daily Dust Inspection Sheet (provided in Appendix 1).

6 COMPLAINTS PROCEDURE

- 6.1.1 Any complaints will be taken seriously and responded to without delay.
- 6.1.2 If a complaint is received that relates to emissions of dust from the site, the Site Manager will be notified as soon as possible, and an investigation will be undertaken to determine the cause of the dust emissions.
- 6.1.3 The Site Manager will acknowledge the complaint by contacting the complaint and details of the complaint will be recorded in the Dust Complaint Form (provided in Appendix 2). Details of the actions that are undertaken in response to the complaint will also be recorded on the form.
- 6.1.4 The results of the investigation and any remedial measures that are taken to resolve the complaint will be made available to the Environment Agency upon request. Records will be kept of inspections and any actions taken to resolve any identified emissions.

7 REVIEW AND RESPONSIBILITY

- 7.1.1 This Dust Management Plan will be reviewed by the Site Manager annually. Updated versions will be issued as necessary with mitigation and/or operational changes outlined. The version history will be updated each time to maintain a record of changes.
- 7.1.2 It is the responsibility of senior site staff to ensure that the Dust Management Plan is enforced and that all employees are made aware and understand the contents of the plan.

APPENDICES

APPENDIX 1

Daily Dust Inspection Sheet

DAILY DUST INSPECTION FORM

Location on site	Inspection comments
Site entrance	
Area where material is currently being tipped	
Site Boundary to the east	
Site Boundary to the west	
Site boundary to the south	
Site boundary to the north	
Inspection Details	
Weather conditions	
Wind direction and speed	
Investigation findings and comment on measures taken	
Assessed by:	
Date and Time:	

Location on site	Inspection comments
Site entrance	
Area where material is currently being tipped	
Site Boundary to the east	
Site Boundary to the west	
Site boundary to the south	
Site boundary to the north	
Inspection Details	
Weather conditions	
Wind direction and speed	
Investigation findings and comment on measures taken	
Assessed by:	
Date and Time:	

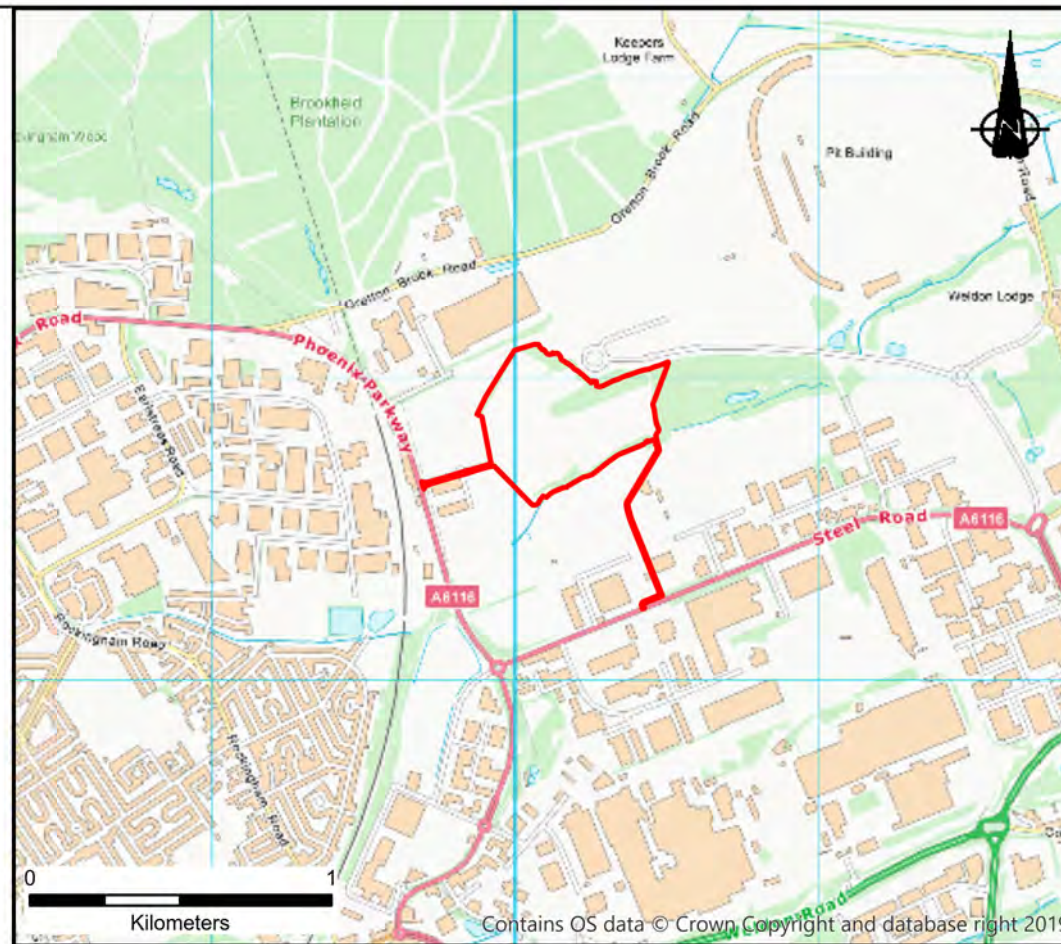
APPENDIX 2

Dust Complaint Log

DUST COMPLAINT FORM

Customer Details	
Customer Name -	
Address –	
Postcode -	
Customer Contact Details -	
Tel -	
Email -	
Date -	
Complaint Ref Number -	
Complaint Details -	
Investigation Details	
Investigation carried out by -	
Position -	
Date & time investigation carried out -	
Weather conditions -	
Wind direction and speed -	
Investigation findings -	
Feedback given to Environment Agency and/or local authority -	
Date feedback given -	
Feedback given to public -	
Date feedback given -	
Review and Improve	
Improvements needed to prevent a reoccurrence -	
Proposed date for completion of the improvements -	
Actual date for completion -	
If different insert reason for delay -	
Does the dust management plan need to be updated -	
Date that the dust management plan was updated -	
Closure	
Site manager review date	
Site manager signature to confirm no further action required	

DRAWINGS



KEY

Site Boundary

Notes:

Contains Ordnance Survey data.
© Crown Copyright and database right 2019

REVISION	DETAILS	DATE	DRAWN	CHKD	APPD
CLIENT					
Storefield Group Limited					
PROJECT					
Land off Phoenix Parkway Corby					
DRAWING TITLE					
Application Site Location					
DRG No.	GM10604-014		REV	A	
DRG SIZE	A3	SCALE	AS SHOWN		DATE
					24/09/2019
DRAWN BY	CT	CHECKED BY	AJM		APPROVED BY
					AJM



■ BOLTON | TEL 01204 227 227
 WWW.WARDELL-ARMSTRONG.COM
☐ BIRMINGHAM ☐ LONDON
☐ CARDIFF ☐ MANCHESTER
☐ CARLISLE ☐ NEWCASTLE UPON TYNE
☐ EDINBURGH ☐ SHEFFIELD
☐ GLASGOW ☐ STOKE ON TRENT

STOKE-ON-TRENT

Sir Henry Doulton House
Forge Lane
Etruria
Stoke-on-Trent
ST1 5BD
Tel: +44 (0)1782 276 700

BIRMINGHAM

Two Devon Way
Longbridge Technology Park
Longbridge
Birmingham
B31 2TS
Tel: +44 (0)121 580 0909

BOLTON

41-50 Futura Park
Aspinall Way
Middlebrook
Bolton
BL6 6SU
Tel: +44 (0)1204 227 227

BRISTOL

Temple Studios
Temple Gate
Redcliffe
Bristol
BS1 6QA
Tel: +44 (0)117 203 4477

BURY ST EDMUNDS

Armstrong House
Lamdin Road
Bury St Edmunds
Suffolk
IP32 6NU
Tel: +44 (0)1284 765 210

CARDIFF

Tudor House
16 Cathedral Road
Cardiff
CF11 9LJ
Tel: +44 (0)292 072 9191

CARLISLE

Marconi Road
Burgh Road Industrial Estate
Carlisle
Cumbria
CA2 7NA
Tel: +44 (0)1228 550 575

EDINBURGH

Great Michael House
14 Links Place
Edinburgh
EH6 7EZ
Tel: +44 (0)131 555 3311

GLASGOW

24 St Vincent Place
Glasgow
G1 2EU
Tel: +44 (0)141 428 4499

LEEDS

36 Park Row
Leeds
LS1 5JL
Tel: +44 (0)113 831 5533

LONDON

Third Floor
46 Chancery Lane
London
WC2A 1JE
Tel: +44 (0)207 242 3243

NEWCASTLE UPON TYNE

City Quadrant
11 Waterloo Square
Newcastle upon Tyne
NE1 4DP
Tel: +44 (0)191 232 0943

TRURO

Baldhu House
Wheal Jane Earth Science Park
Baldhu
Truro
TR3 6EH
Tel: +44 (0)187 256 0738

International office:

ALMATY

29/6 Satpaev Avenue
Hyatt Regency Hotel
Office Tower
Almaty
Kazakhstan
050040
Tel: +7(727) 334 1310