

Bleak Hill III

784-B031732

Dust Management Plan

Environmental Permit Application

CEMEX UK Materials Limited

December 2022

**Document prepared on behalf of Tetra Tech Environment Planning Transport Limited.
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1.0 INTRODUCTION

1.1 REPORT CONTEXT

- 1.1.1 This document has been prepared by Tetra Tech on behalf of the Operator, CEMEX Materials UK Limited (CEMEX) to support an environmental permit application for the Bleak Hill III (the site) at Nea Road, Ringwood, Hampshire, BH24 3PL.
- 1.1.2 CEMEX are seeking to apply for a bespoke waste recovery permit for the permanent deposit of inert waste to land at the site to facilitate the restoration scheme (Drawing Number P6/206/7/A) as approved under planning permission 19/11326 granted by Hampshire County Council (HCC).
- 1.1.3 The Environment Agency's (EA) 'Control and Monitor Emissions for your Environmental Permit' guidance indicates that a DMP must be prepared to support an application that comprises the '*disposing of household, commercial or industrial waste by deposit for recovery*'.
- 1.1.4 As such, this DMP has been prepared in accordance with the EA's 'Dust & Emission Management Plan' template (Version 10, October 2018).
- 1.1.5 This DMP is a working document, intended to be used as a reference document for operational staff on a day-to-day basis. CEMEX will implement the plan to ensure that all reasonable measures are taken to control dust emissions, and in the event that an adverse impact is caused, prompt action will be taken to identify the source and apply corrective measures. It provides a schedule of actions that will be taken to minimise dust impact and details site management procedures for the management and monitoring of dust.

2.0 SITE DESCRIPTION

2.1 SITE SETTING

- 2.1.1 The site forms part of the wider Hamer Warren quarry site and is located approximately 1.5km southeast of Alderholt in Hampshire and is centred at approximate National Grid Reference (NGR) SU 13026 11339. The application site is detailed on Drawing Number CEM/B031732/PER/01.
- 2.1.2 Access to the site is achieved via an unnamed access road off Harbridge Drove which is located to the south of the site. The immediate surroundings of the site comprises woodland to the west, south east and north east and undeveloped/agricultural land to the north, south and east. The site is also located approximately 1.3km west of the Avon Valley which is designated as a Site of Special Scientific Interest (SSSI), Special Protection Area (SPA) and Ramsar.
- 2.1.3 The site is located to the north of the Hamer Warren Quarry site which includes an active landfill site (known as Bleak Hill I and II) which is operated by CEMEX. The landfill is regulated under a separate environmental permit (reference EPR/FP3498SZ and EAWML 21000).
- 2.1.4 According to DEFRA's 'AQMA Interactive Map', the site is not situated in or within 2km of a designated Air Quality Management Area (AQMA) for particulate matter (PM10), Nitrogen Dioxide (NO₂) or Sulphur Dioxide (SO₂).
- 2.1.5 Further details regarding the environmental setting of the site are provided in the Environmental Setting and Site Design (ESSD) report that has been prepared to support this application. A copy of the ESSD is provided as Appendix D of the Environmental Permit Application.

2.2 PLANNING HISTORY

- 2.2.1 Mineral working has taken place in the vicinity of the application site, at and around Hamer Warren Quarry since the 1930s. Hamer Warren Quarry, located to the south of the site was granted planning permission in 1954 and has since been granted subsequent planning permissions in 1964, 1966, 1971 and 1983 for a series of extensions to workings. The original Hamer Warren Quarry has now been fully worked and restored and returned to the landowners.
- 2.2.2 Following the completion of works at the original Hamer Warren Quarry, planning permission was granted for two areas of land known as Bleak Hill I and II. These permissions and their references are set out below.
- 2.2.3 In April 1988 planning permission (reference 031987) was granted for Bleak Hill I, for the 'extraction of sand and gravel and selected infilling with imported materials with restoration to agriculture'. In November 1992 planning permission (reference 046239) was granted for Bleak Hill II, for the 'extraction of sand and gravel and selected infilling with imported materials with restoration to agriculture'.
- 2.2.4 In March 2011, planning permission (reference 11/96573) was granted by Hampshire County Council (HCC) for an extension of the lifetime of the aggregate recycling permission to 31 December 2018. This operation was originally permitted for Hamer Warren Quarry in 1993 and was relocated to Bleak Hill I under permission reference 70318. Permission 11/96573 renewed this.
- 2.2.5 In August 2010, planning permission (reference 09/94574) was granted by HCC for a variation to Condition 46 of planning permission 78402 and application to vary approved working scheme under condition 5 of planning permission 78402 for the retention of the existing aggregate processing plant and the working scheme varied for Bleak Hill I and II. The expiry date was set as 31 December 2018.

- 2.2.6 In June 2014, planning permission (reference 14/10309) was granted by HCC to allow 24 hour pumping for dewatering at Bleak Hill II. The end date was 31 December 2018.
- 2.2.7 On 7th December 2015, planning permission (reference 15/10539) was granted by HCC to revise the permitted working and restoration schemes. The end date was 31 December 2018.
- 2.2.8 In August 2016, planning permission (reference 16/10796) was granted by HCC for a new processing facility to enable improved mineral recovery. Condition 2 of this permission ensures that the processing plant is ancillary to the use of the land approved under planning permission 31987 and as varied by 09/94574 and 15/10539.
- 2.2.9 In October 2019, two planning permissions were granted by HCC which are summarised below:-
- Permission 19/10014 – Variation of Condition 1 of permission 15/10539 to extend the lifetime of Bleak Hill I and II enabled continuation of working and restoration until 31 December 2022.
 - Permission 19/10015 – Variation of Condition 1 of permission 11/96573 to extend the time period of operation to 31 December 2022.
- 2.2.10 In December 2021, three planning permissions were granted by HCC which comprised the following:-
- Permission 19/11326 - Extension of mineral working at Hamer Warren Quarry, to extract some 600,000 tonnes of sand and gravel from Bleak Hill III, including works to create an extended haul road and back filling with inert material and progressive restoration to agriculture with increased nature;
 - Permission 19/11324 - Variation of Condition 1 of Planning Permission 19/10015 to allow an extension of time for an aggregate recycling plant and operations at Bleak Hill I until 31 December 2025; and
 - Permission 19/11325 - Variation of Condition 1 of Planning Permission 19/10014 to allow an extension of time for the working of minerals and the tipping of materials at Bleak Hill I and II until 31 December 2025.

2.3 PERMITTED ACTIVITIES

- 2.3.1 As noted in Section 1, CEMEX are applying for an environmental permit for the site to facilitate the infilling and restoration works that are approved under planning permission 19/11326.
- 2.3.2 As detailed in the restoration plan (Drawing Number P6/206/7A) the site will be restored to agriculture with a small pond in the southeast corner and with nature conservation provision and biodiversity enhancements around the boundaries. The restoration of the site would form part of the wider restoration proposals for the wider quarry site.
- 2.3.3 According to the approved phasing plan (Drawing Number P6/206/5, Rev B (Plans I - XI)), a series of bunds will be placed along the perimeter of the working phases using topsoil and overburden soils. Although these bunds are intended for dust management, CEMEX understand that the bunds may be a potential source for dust and therefore intend to implement control measures which are detailed in Table 4 of this document.

2.4 NON-PERMITTED ACTIVITIES

- 2.4.1 In addition to the permitted activities detailed in Sections 2.3, the site will comprise an active quarry which will be worked on for the extraction of sand and gravel. Following extraction, the mineral will be processed by the aggregate processing plant that's located to the south of the site within Bleak Hill I and II.

2.4.2 Although the mineral extraction process does not fall within the remit of the environmental permit, it is understood that this activity may be a potential source of dust emissions.

2.5 WASTE TYPES

2.5.1 The waste codes to be taken by this site are identified by the EA as suitable for use in the restoration of mineral workings and as general fill material (EA Guidance: Check if your waste is suitable for deposit for recovery 2021). The material to be imported is defined as materials which are not reactive, do not dissolve, do not biodegrade, have insignificant leachability and pollutant content, and would not give rise to environmental pollution or harm to human health. In order to be classified as inert, material must meet the waste acceptance criteria for inert materials (EA, 2008) and as such, would not pose a significant risk to the water environment. The inert materials used for restoration would only be accepted at the site if they meet the strict acceptance criteria defined in the Environmental Permitting (England and Wales) Regulations 2016 and they would be placed in an area lined with a suitable geological barrier comprising selected cohesive inert material.

2.5.2 The proposed waste types are listed in Table 1 below. Details regarding the restrictions that will be implemented for the proposed waste types are provided in the Operating Techniques (Appendix C of the Environmental Permit Application).

Table 1: Proposed Waste Types

EWC Code	Description	Restriction
01	WASTE RESULTING FROM EXPLORATION, MINING, QUARRYING AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
01 01	Wastes from mineral excavation	
01 01 02	Waste glass-based fibrous materials	Restricted to waste overburden and interburden only
01 04	Wastes from physical and chemical processing of non-metalliferous minerals	
01 04 08	Waste gravel and crushed rocks other than those mentioned in 04 04 06	
01 04 09	Waste sand and clay	
10	WASTES FROM THERMAL PROCESSES	
10 12	Wastes from manufacture of ceramic goods, bricks, tiles and construction products	
10 12 08	Waste ceramics, brick, tiles and construction products (after thermal processing)	
10 13	Wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 14	Waste concrete	
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 01	Concrete, bricks, tiles and ceramics	
17 01 01	Concrete	Selected C&D waste only
17 01 02	Bricks	Selected C&D waste only
17 01 03	Tiles and ceramics	Selected C&D waste only

17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	Selected C&D waste only. Metal from reinforced concrete must have been removed.
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil	
17 05 04	Soil and stones other than those mentioned in 17 05 03	Excluding topsoil, peat; excluding soil and stones from contaminated sites
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified	
19 12 09	Minerals only	Wastes from the treatment of waste aggregates that are otherwise naturally occurring minerals. Does not include fines from treatment of any non-hazardous waste or gypsum from recovered plasterboard.
19 12 12	Other wastes from mechanical treatment of wastes other than those mentioned in 19 12 12	Restricted to crushed bricks, tiles, concrete and ceramics only. Metal from reinforced concrete must be removed. Does not include fines from treatment of any non-hazardous waste or gypsum from recovered plasterboard.
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 02	Garden and park wastes (including cemetery waste)	
20 02 02	Soil and stones	Only from garden and parks waste; excluding topsoil, peat.

2.6 WASTE QUANTITIES

2.6.1 In order to complete works at the site, a volume of 381,579m³ of inert materials will be required in total. When using a bulk density conversion factor of 1.9 tonnes/m³ this equates to approximately 725,000 tonnes.

2.7 WASTE STORAGE

2.7.1 CEMEX do not intend to store any waste on site prior to placement. Any waste that's accepted in accordance with the waste acceptance procedures (as detailed in the Operating Techniques document), will be directed to the current working face of the site, where it will be unloaded from the vehicle and used immediately as part of the infilling activities.

2.8 OPERATING HOURS

2.8.1 The operating hours for the site will be limited to the following in accordance with the planning permission granted by HCC.

- Monday to Friday: 07:00 – 18:00; and
- Saturday: 08:00 – 13:00

2.8.2 There would be no work on Sundays or Bank and National Holidays

2.9 PLANT AND EQUIPMENT

- 2.9.1 The infilling and restoration works at the site will use mobile plant and will mainly comprise a bulldozer and a 360 excavator. The adjacent landfill site (Bleak Hill I and II) benefits from an overnight parking area which will be used for mobile plant that's used on site as shown on Drawing Number P2/206/4A.
- 2.9.2 In addition to the above, a weighbridge and wheel wash, installed at CEMEX's adjacent landfill site (Bleak Hill I and II) will be used by all vehicles that access the site.
- 2.9.3 As a function of the Environmental Management System, the performance of all plant and equipment will be reviewed in comparison to other models that may be available on the market. If there happens to be other models available that perform more efficiently than the site's existing plant and is financially feasible, CEMEX may decide to change their existing plant and equipment. As part of the process, CEMEX will ensure that all non-road going mobile plant have a minimum Stage IV emission rating and road going vehicles will have a minimum emission rating of Euro VI. As such, the brand, make, model and specification of the mobile plant and equipment that will be used on site is expected to vary throughout the operational life of the facility.
- 2.9.4 Only personnel who are trained and licensed to operate equipment and carry out maintenance will do so.
- 2.9.5 All plant and equipment will be maintained in accordance with a preventative maintenance programme which will be defined by the manufacturer's requirements. This will ensure that the integrity and operational efficiency of all plant and equipment is maintained and therefore minimise the risk of mechanical failure which may result in increased dust emissions. This particular programme forms part of the site's Environmental Management System.
- 2.9.6 In addition, all plant and equipment will be visually inspected on a daily basis by the Site Manager (or a nominated deputy) prior to use. The purpose of this inspection is to identify any signs of defects that may affect the integrity and operational efficiency of the plant.
- 2.9.7 In the event that a defect is identified on any item of plant or equipment, the use of the plant/equipment will be suspended until the necessary remedial works have been undertaken.
- 2.9.8 As part of the works, a series of bunds, measuring from 3m to 5m high will be developed along the perimeter of the application site using topsoil and overburden soils (as shown on Drawing Number P6/206/5, Rev B (Plans I – XI)). Although these bunds are not intended for dust management, CEMEX understand that the bunds may be a potential source for dust and therefore intend to implement control measures which are detailed in Table 4 of this document.

2.10 DUST SENSITIVE RECEPTORS

- 2.10.1 Receptors within 1km of the proposed application boundary have been listed in Table 2 and are shown on Drawing Number CEM/B031732/REC/01.

Table 2: Receptors Within 1Km of the Site

ID	Receptor	Direction from Operational Area	Minimum Distance from the Permit Application Boundary (approx. m)
Domestic Dwellings			

Bleak Hill III
Dust Management Plan

1	Properties on Harbridge Drove	NE	55
2	Properties on Bleak Hill	E	80
3	Properties on Kent Lane	SE	784
4	Properties of Alderholt	NW	777
Commercial and Industrial Premises			
5	Bleak Hill Plants	NE	Adjacent
6	Snowdrop Cottage	SE	970
7	Warren Park Farm	W	501
8	Snowdrop Cottage (Indoor accommodation)	SE	970
9	Foxhill Farm, Alderholt	NW	530
10	Huzzey J (Self-catering accommodation)	W	740
11	Take a Tuk – New Forest	N	900
Schools / Hospitals / Shops/Amenities			
12	Alderholt Recreation Ground	NW	615
13	Alderholt Sports & Social Club	NW	765
Highways or Minor Roads			
14	Harbridge Drove	E	Adjacent
15	Lomer Lane	E	Adjacent
16	Harbridge Green	E	Adjacent
17	Kent Lane	E	842
18	Hillbury Road	N	410
19	Ringwood Road	N	238
20	Northern End Lane	NE	502
Ancient Woodland			
21	Ancient Woodland – Ancient and Semi-Natural Woodland	SW	656
22	Ancient Woodland – Ancient and Semi-Natural Woodland	SE	841
Protected Habitats			
23	Deciduous Woodland	W	366
24	Deciduous Woodland in Kent Hill	SE	179
25	BAP Priority Habitat – Woodpasture and Parkland	W	On boundary
26	BAP Priority Habitat – Woodpasture and Parkland	SE	676
27	Deciduous Woodland in Bleak Hill	E	184
28	Deciduous Woodland	N	22
29	Deciduous Woodland	NW	57
30	Deciduous Woodland	S	927
31	Deciduous Woodland	S	289
32	Deciduous Woodland	SE	772
33	Deciduous Woodland surrounding Warren Park Farm	NW	462
34	Deciduous Woodland	NE	837

35	Deciduous Woodland	W	464
36	Deciduous Woodland (Primrose Cottage)	NE	770
37	Deciduous Woodland	W	835

Nature and Heritage Conservation Sites – Local Wildlife Sites (LWS)

38	Ringwood Forest & Home Wood	W	On boundary
39	Lomer Copse	E	155
40	Lomer Meadow	E	155

Listed Buildings and Scheduled Monuments

41	Primrose Cottage, Harbridge Drove, Ellingham, Harbridge and Ibsley, New Forest, Hampshire (Grade II Listed)	SE	367
42	Fernhill Cottage, 35, Bleak Hill, Ellingham, Harbridge and Ibsley, New Forest, Hampshire (Grade II Listed)	E	599

Sensitive Land Uses

43	Bleak Hill Farm	E	Adjacent
44	Hill View Farm	E	254
45	Oak Tree Farm	N	333
46	Warren Park Farm	W	845

Surface Water e.g. rivers and streams

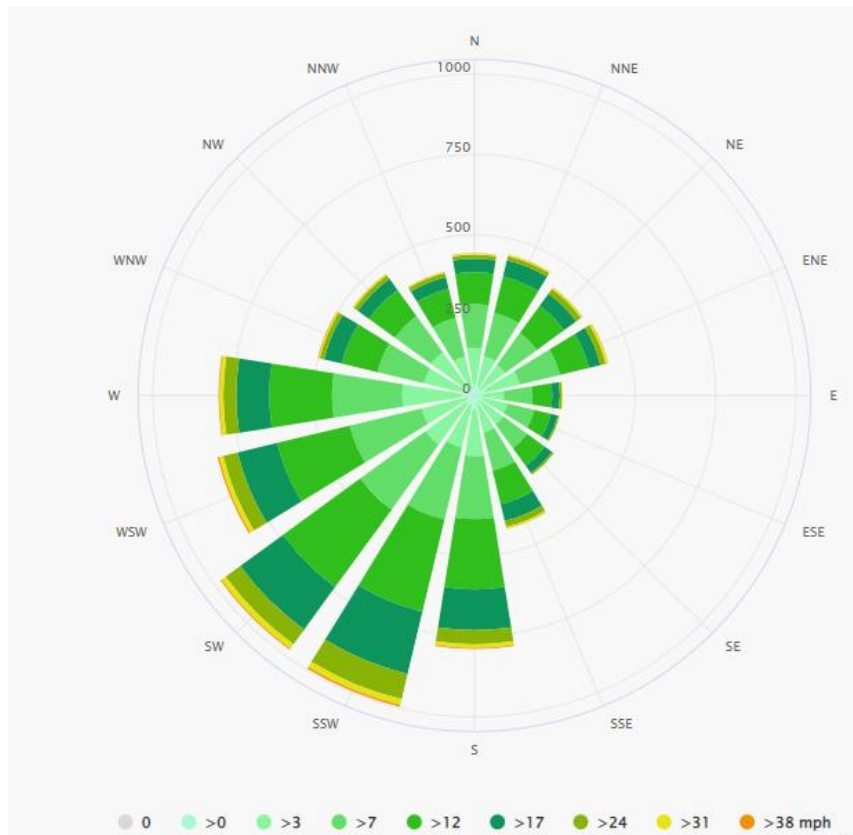
47	Lake	S	644
48	Lake	W	468
49	Lake	W	693
50	Hammer Brook	SW	661
51	Turner Brook	SE	1km

Groundwater (sensitivity)

According to the Multi-Agency Geographic Information for the Countryside's (MAGIC) website, the site is located on a Medium-High scale on the Groundwater Vulnerability Map. In terms of aquifers, the MAGIC website does not include the site in any aquifer designations.

- 2.10.2 The prevailing wind direction will determine which receptors will be affected and at what frequency.
- 2.10.3 Meteorological data has been used from Alderholt from www.meteoblue.com which is considered to be representative of conditions within the vicinity of the application site. According to the wind rose data for the area, the prevailing winds in the local area is from the south west (SSW) as shown in Figure 1 below.

Figure 1: Prevailing Wind Direction for Alderholt



- 2.10.4 As such, areas at most risk from dust emissions, should it occur, are therefore located north east of the site.
- 2.10.5 As noted in Table 2, there are surface water features within 1km of the site. According to the EA’s ‘Dust & Emission Management Plan’ template, surface water and groundwater are not identified as receptors that are susceptible to the adverse effects of exposure to high levels of dust and particulates. As such, these receptors are not considered further in this DMP.

3.0 DUST AND PARTICULATE MANAGEMENT

3.1 RESPONSIBILITY FOR THE IMPLEMENTATION OF THE DMP

- 3.1.1 The implementation and dissemination of this DMP will be the responsibility of the Site Manager, supported by other staff. The Site Manager can delegate certain tasks as required, although ultimate responsibility will remain with them.
- 3.1.2 A nominated deputy will be appointed for all times when the Site Manager is not on site. In such circumstances, it will be the nominated deputy's responsibility to ensure that the requirements of the DMP are adhered to.
- 3.1.3 All site staff will receive instructions on how the plan is to be implemented during toolbox talks on site.
- 3.1.4 This document forms part of the site's Environmental Management System (EMS) and will be reviewed on an annual basis to ensure that it is fit for purpose and meets the requirements of current guidance.

3.2 SOURCES AND CONTROL OF DUST – LOCAL CONTRIBUTORS

- 3.2.1 According to the EA's public register, there is one permitted facility within 1km of the site that may be considered as a local contributor to dust emissions. The facility relates to the adjacent landfill site (Bleak Hill I) which is operated by CEMEX and is regulated under a bespoke environmental permit (reference EPR/FP3498SZ and EAWML 210007).

3.3 SOURCES AND CONTROL OF DUST – ACTIVITIES AT BLEAK HILL III

- 3.3.1 The key aspects of the process which may lead to dust emissions are identified in Table 3 below and the control measures that will be used are detailed in Table 4.

Table 3: Source-Pathway-Receptor Routes from Waste Activities at the Site

Source	Pathway	Receptor	Type of impact
Mud	Tracking dust on wheels and vehicles, then mud dropping off wheels/vehicles when dry	Public highways listed in Table 2.	Visual soiling, also consequent resuspension as airborne particulates
Debris	Falling off waste delivery vehicles	Public Highways listed in Table 2.	Visual soiling, also consequent resuspension as airborne particulates
Tipping and handling wastes in the open	Atmospheric dispersion	Occupiers of domestic dwellings listed in Table 2.	Visual soiling and airborne particulates
Vehicle exhaust emissions	Atmospheric dispersion	Workforce in commercial and industrial properties listed in Table 2.	Airborne particulates
Non road going machinery exhaust emissions	Atmospheric dispersion	Priority habitats listed in Table 2.	Airborne particulates
Dust from screening bunds	Atmospheric dispersion	Local Wildlife Sites listed in Table 2.	Airborne particulates

		Sensitive land uses listed in Table 2.	
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Table 4: Measures to Control Dust/Particulates from Permitted Waste Activities

Abatement Measure	Description / Effect	Trigger for implementation
Preventative Measures		
Site speed limit	Vehicle speeds will be limited on site and the access road to 10mph to prevent suspension and entrainment of dust. Clear signage is established on the site to reinforce the speed limit.	All preventative measures will be implemented during the operating hours detailed in Section 2.8.
No-idling policy	A 'No-idling policy' is in place at the site which requires all vehicles and plant to be switched off when not in use. All vehicles delivering waste to the site will be directed to the working waste face, where they will tip their load (as directed by site operatives) and then leave the site.	
Minimising drop heights for waste.	Drop heights will be minimised as much as practicable to reduce the generation of dust whilst waste is being deposited.	
Road surfacing	Within the site, internal haulage will be restricted to clearly delineated routes, generally on a prepared surface and at low level where possible. The haul routes will be compacted, graded and maintained to provide a smooth-running surface and will be designed to avoid sharp changes in gradient or alignment. Vehicles leaving the site will use the wheel wash before travelling over a haul road which benefits from a concrete surface.	
Sheeting of vehicles	Wastes being delivered to the site will be covered or sheeted to prevent dust emissions whilst the waste is in transit.	
Installed wheel wash	The wider quarry site benefits from a wheel wash which will be used by all outgoing vehicles before they leave the site. The wheel wash is situated on the proposed exit route which is considered to be a suitable location in minimising mud being tracked onto the public roads.	
Maintenance of Plant and Equipment	All plant and equipment will be maintained in accordance with the manufacturer's requirements. This will minimise the risk of mechanical failure which may result in increased dust emissions. In addition, all plant and equipment will be subject to visual checks on a daily basis prior to use to ensure that the equipment functions correctly. In the event that any damage is identified on any plant or equipment that may affect its performance, necessary remedial work will be completed as soon as practicable. If necessary, defective plant or equipment may be isolated/closed off	

	for use until the necessary remedial works have been undertaken. With regards to cleaning equipment (i.e., road sweeper), arrangements will be made to employ alternative equipment.	
Vehicle exhausts	All site vehicles will be fitted with upswept exhausts and radiator cowls.	
Seeding of screening bunds	All screening bunds (as shown on Drawing Number P6/206/5, Rev B (Plans I - XI)), will be watered and seeded at the earliest opportunity to bind the surface and minimise the effects of wind blow.	
Remedial Measures		
On-site sweeping	A road sweeper will be contracted to clean the site entrance and access road.	A road sweeper will be employed if daily visual inspections identify any visible dust on the site entrance or access road.
Water suppression with bowser	A water bowser towed by a tractor will be used to suppress dust on haul roads, exposed waste surface, waste stockpiles and screening bunds.	The water bowser will be employed if daily visual inspections identify any visible dust. It may also be employed following a review of the weather conditions which will be recorded on a daily basis. If these observations indicate that there is an increased risk to dust emissions, the water bowser will be employed.

3.4 OTHER CONSIDERATIONS

Water Availability

- 3.4.1 A water bowser will be used on site on the haul roads and the exposed waste surface if observations of the weather conditions indicate that there is an increased risk of dust. The water bowser will be supplied through a mains water supply however, the adjacent landfill site (Bleak Hill I and II) comprises a series of silt lagoons which are used to process any silt laden water that is generated from the aggregate processing plant that is situated on site. The purpose of these lagoons is to allow the silt to settle out of the water column and result in clean water that can be used by the aggregate processing plant.
- 3.4.2 In the event that the water cannot be supplied through a mains water supply, CEMEX would aim to use clean water that's available from the lagoon system within Bleak Hill I and II.
- 3.4.3 In the unlikely event that water can not be supplied through a mains supply or the on-site lagoon system, operations would continue until dust monitoring indicates that remedial measures are required. This may include the following:-
- Employ a road sweeper to clean the site entrance and access road that may be affected;
 - Relocate operations to less sensitive locations of the working face (if possible);
 - Reduce vehicle speeds to 10mph to 5mph
 - Reduction in site activities (e.g. limit waste deliveries to the site).
- 3.4.4 In the event that visible dust is still identified following the implementation of remedial action(s), operations on site will cease.

Housekeeping

- 3.4.5 The only area of the site that will comprise a cleanable (concrete) surface is the access road that joins the site from Alderholt Road.
- 3.4.6 For the purposes of the DMP, this road will be cleaned by a road sweeper based on specific triggers that are detailed in Table 4. In addition, the rest of the permit area comprises an active quarry site where the landform is expected to change during its operational phase. As such, CEMEX do not propose to implement a housekeeping procedure at the site.

3.5 VISUAL DUST MONITORING

- 3.5.1 Daily monitoring in the form of a visual assessment will be conducted across the site boundary to ensure that there are no visible dust emissions. According to the EA’s Technical Guidance Note (TGN) M17 ‘Monitoring Particulate Matter in Ambient Air around Waste Facilities’, a minimum of two monitoring points (one upwind and one downwind in relate to prevailing wind) should be established. As such, a visual assessment will take place at the points shown on Drawing Number CEM/B031732/DMP/01 as a minimum. These points take into consideration the prevailing wind direction (SW) and sensitive receptors that are potentially downwind to some of the working phases.
- 3.5.2 Monitoring will also comprise daily observations on the meteorological conditions (particularly the wind speed and direction) at the site. This information will be used by the Site Manager (or a nominated deputy) to determine the risk of dust emissions which is typically elevated during periods of dry weather or high winds. For the purposes of this DMP high winds have been defined Number 7 on the Beaufort scale where wind speeds range from 28-33 knots. The Beaufort Scale defines land conditions in high winds as “whole trees in motion; inconvenience felt when walking against the wind”.
- 3.5.3 Daily monitoring will be undertaken by a member of site personnel who is trained in this procedure.
- 3.5.4 The results of the visual assessment and comments on the meteorological conditions will be recorded in the Environmental Management Plan Daily Log (Appendix A) and will be reviewed by the Site Manager (or a nominated deputy). CEMEX will maintain a record of the Daily Dust Conditions Log and will be referred to in the event of a complaint (as detailed in Table 6).
- 3.5.5 Monitoring will be undertaken during the operating hours detailed in Section 2.8. CEMEX do not propose to make any arrangements to monitor dust outside operating hours as it’s considered that the risk of dust will be low during this period.
- 3.5.6 In the event that visible dust or high winds are identified through daily monitoring, the following actions will be undertaken.

Table 5: Action Plan for Visible Dust or High Wind Speeds

	Action	Person responsible for ensuring action is carried out	Timescale for action completion
1	<p>The Site Manager (or a nominated deputy) will be notified and will make the appropriate managerial staff and site operatives aware.</p> <p>In the event that visible dust is identified from daily monitoring, the Site Manager (or a nominated deputy) will review site</p>	Site Manager (or a nominated deputy)	Within one working day of observing visible dust or high wind speeds.

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	<p>operations to establish if the site can be identified as the source of the dust.</p> <p>In the event that high wind speeds are observed, the Site Manager (or a nominated deputy) will proceed to implement remedial action(s) that are detailed in Step 2.</p>		
2	<p>If the visible dust can be directly related to the site or high wind speeds are observed, remedial action will be undertaken and may include the following depending on the source: -</p> <ul style="list-style-type: none"> • Employ water bowser to dampen areas or equipment that may be generating dust; • Employ a road sweeper to clean the site entrance and access road that may be affected; • Relocate operations to less sensitive locations of the working face (if possible); • Reduce vehicle speeds to 10mph to 5mph • Reduction in site activities (e.g. limit waste deliveries to the site and limit waste treatment). 	Site Manager (or a nominated deputy)	Within one working day of observing visible dust or high wind speeds.
3	A follow up visual assessment will be undertaken off site on the local road network for any visible dust.	Site Manager (or a nominated deputy)	Within one working day of implementing remedial measure(s).
4	If visible dust is not identified, the Site Manager (or a nominated deputy) will ensure that any action taken, and the effectiveness of that action is documented and a record will be maintained.	Site Manager (or a nominated deputy)	Within one working day of implementing remedial measure(s).
5	In the event that visible dust is identified following the implementation of remedial action(s), operations on site will cease and the EA will be informed.	Site Manager (or a nominated deputy)	Within one working day of implementing remedial measure(s).

4.0 REPORTING AND COMPLAINTS RESPONSE

4.1 PURPOSE OF COMPLAINTS PROCEDURE

- 4.1.1 A DMP should show how the operator will respond to complaints. Any complaints should be investigated promptly, and appropriate remedial action should be taken. The complainant and anyone else likely to be affected should be informed of any action taken in response to the complaint.
- 4.1.2 A procedure has been developed (see Table 6 below) to ensure that complaints will be handled by CEMEX appropriately and consistently and to reassure the EA and the public that any of their concerns will be acknowledged and acted upon where appropriate. The procedure will be reviewed on an annual basis or in the event of any significant dust issues.

4.2 COMPLAINTS REPORTING ROUTE

- 4.2.1 In order to ensure that members of the public are easily able to report any complaints relating to dust emissions from the site, there will be a display board at the site entrance which details the site name, the permit number, the EA's contact details and CEMEX's contact details. By providing contact details for the EA as well as the operator, this ensures that the member of public can report their complaint and be confident that it will be received by the appropriate party even if they feel uncomfortable discussing directly with the operator.

4.3 COMPLAINTS RECORDS

- 4.3.1 Auditable records would be kept of any complaints made and the investigations undertaken. This would provide an ongoing record of the causes incidents and would be made available to the regulator to examine on request. The Site Manager or an appropriately trained operator will review the DMP once a year, in light of any complaints or issues that have been identified during the previous year. Should any control measures be shown to be failing, or should a need for further control measures be identified, new controls will be agreed and implemented in an updated DMP.

4.4 COMMUNITY ENGAGEMENT

- 4.4.1 CEMEX will be undertaking regular community liaison group meetings with any interested local parties and any issues with dust can be raised at that time.

Figure 2: Reporting Route

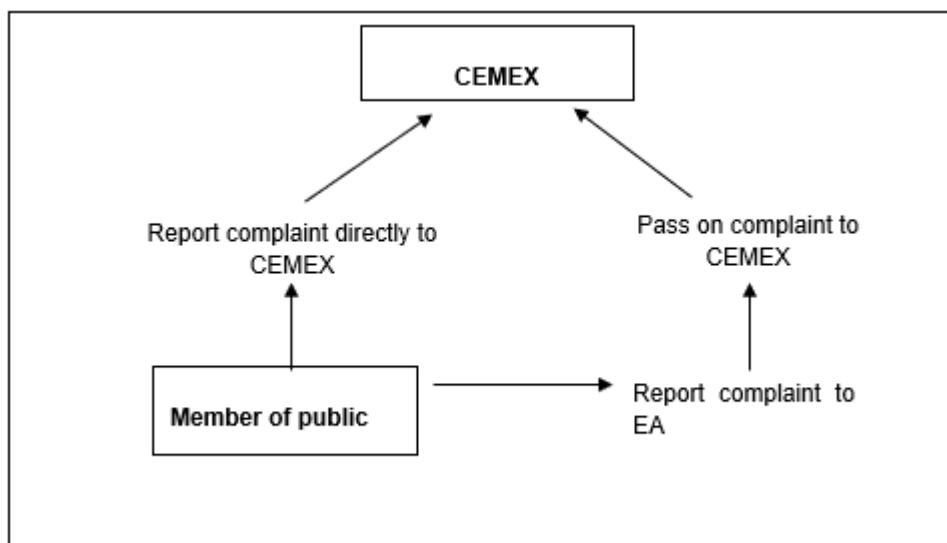


Table 6: Complaints Procedure

Action	Person responsible for ensuring action is carried out	Timescale for Action Completion
1. The Site Manager (or a nominated deputy) will be notified of the complaint and will make the appropriate managerial staff and site operatives aware of the complaint. The EA will also be notified of the complaint. The complaint shall be formally recorded using the CEMEX online incidents and complaints recording system.	Site Manager (or a nominated deputy)	Within two working days of receipt of the complaint.
2. The complaint will be investigated by: - a) Checking the monitoring records to see whether the complaint corresponds to the monitoring records. b) Checking the Site Diary and waste acceptance records to see if any particularly dusty waste was accepted. c) Checking the Site Diary to see whether the complaint corresponds to any operational issues at the site. If the cause of the complaint is established, it would be recorded within the CEMEX online incidents and complaints recording system. If no particular cause is identifiable then this would also be recorded.	Site Manager (or a nominated deputy)	Within one working day of receipt of the complaint.
3. If more than one complaint is received about a particular incident, and the cause has not been established, then the frequency of visual dust monitoring will be increased to establish the cause of the complaint.	Site Manager (or a nominated deputy)	Within one working day of receipt of the complaint.

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4.	The Site Manager (or a nominated deputy) will instigate any necessary reviews of procedures and will implement any required changes.	Site Manager (or a nominated deputy)	Within seven working days of receipt of the complaint.
5.	If appropriate, the complainant and the EA will be informed of any corrective actions taken.	Site Manager (or a nominated deputy)	Within seven working days of receipt of the complaint.
6.	A follow up audit on the corrective actions implemented shall be undertaken to ensure the complaint is not made again in the future and that the preventive procedure is effective.	Site Manager (or a nominated deputy)	Within two weeks of receipt of the complaint.
7.	<p>Once the follow up audit has been completed, the Site Manager (or a nominated deputy) will ensure that the complaint and any action taken and the effectiveness of that action are recorded in the Environmental Management System.</p> <p>This record shall also note any amendments to procedures, both environmental and health & safety, which may be required following the investigation. The record shall be kept in the site office at all times or if it is an electronic record it will be accessible from the site.</p>	Site Manager (or a nominated deputy)	Within two weeks of receipt of the complaint.

DRAWINGS

CEM/B031732/PER/01 - Environmental Permit Boundary

CEM/B031732/REC/01 – Receptor Plan

P6/206/7A – Restoration Proposals

P6/206/5, Rev B (Plans I – XI) – Phasing Plans

P2/206/4A – Layout Plan

CEM/B031732/DMP/01 – Dust Monitoring Locations

APPENDICES

APPENDIX A - ENVIRONMENTAL MANAGEMENT PLAN DAILY LOG