

# Mulciber Limited

## Pendrethen Quarry, St Mary's, Isles of Scilly. Dust Mud and Litter Management Plan.

Version 2 amended February 2015.

### **DUST**

The site is located at Pendrethen Quarry, St. Mary's Isles of Scilly. Grid Ref' SV91280 12590  
Pendrethen Quarry itself is located on the north of the island of St Mary's, Isles of Scilly. It is situated near to the coast between Halangy Point, to the west, and Bar Point, to the northeast. The site is accessed via an unmade track from an unclassified road (MacFarland's Down) which joins the A3110 to the south. The quarry is cut into the coastal slope, which affords a degree of natural screening. The surrounding land to the north, east and west comprises small field parcels of agricultural land. This land is most suitable for pasture, although grazing is not commonplace.

The prevailing wind is from the south west.

### **Receptors to Dust**

The nearest dwelling is 'Standing Stone Terrace' located approximately 65metres to the west and is a farmstead. The dwellings along MacFarland's Down are situated to the south of the quarry, the nearest being 'Halangy' and 'Cootamundra', which lie approximately 100metres to the south-southeast. Hugh Town is located approximately 1.8 kilometres to the south-southwest.

The Scilly Isles Complex, Special Area of Conservation SAC (app 160m to the north and north west of the site), Porthloo, Site of Special Scientific Interest (SSSI), a geological feature.

Drawing No' BB3508LE/A001/DWG03 shows location of these receptors.

### **Site Operations**

The site will operate for the receipt of inert construction and demolition wastes, their storage and processing, by crushing and screening, into secondary aggregates for re-sale into Island's construction projects. The nature of operations proposed at the site and categories of waste received and subject to processing will have the potential to emit dust.

Dust may be liberated;

- during receipt and off-loading of source wastes
- from processed and unprocessed materials held in stockpiles
- during transfer of materials within the site, from stockpiles to processing/loading
- from processing activities

### **Mitigation**

1. Measures are provided, for the control of dust release, within the Site's Operational Procedures at paragraphs 10.6 to 10.13.
2. Risk from dust release to the Scilly Isles Complex SAC and Porthloo SSSI have been assessed within the site risk assessment the results of which show low risk to the SAC and no risk to the geological SSSI. This has been further addressed at Paragraph 10.12 of the Site's Operational Procedures.

### **Measures to control dust release are;**

- Wastes consisting solely or mainly of dusts, powders or loose fibres will not be accepted for deposit at the site

- Materials awaiting processing and/or held in storage after processing, will be stockpiled to no greater height than 4 metres to minimise drop heights of materials added to the stockpiles.
- Storage stockpiles will be located, (as shown on Drawing No' BB3508LE/A001/DWG02), wherever possible, at low points within the site and positioned having regard to prevailing wind conditions, downwind wherever possible of key receptors to dust release.
- Except in circumstances of emergency, working of stockpiles will be organised to coincide with favourable wind conditions, such that risk to receptors from dust release is minimised. The closest receptors to dust are the farmstead Standing Stone Terrace which lies app 65 metres to the west and the two domestic properties, Halangy and Cootamundra which lie app 10 metres to the south-south east. There are no domestic receptors to the north east, which is the area most likely to be impacted by the prevailing winds.
- Operations on site will not be continuous or be conducted on a daily basis. The scale of the operations is small and will, generally, be conducted in response to market needs on a batching principle. Accordingly, this will facilitate the timetabling of site operations to suit prevailing weather conditions such as wind direction/speed, with suspension of activities in unfavourable conditions.
- On site processing equipment will;
  1. be fitted with closed conveyors, wherever possible,
  2. be fitted with self-contained dust suppression equipment such as recirculating water systems,
  3. be positioned having regard to wind direction relative to key receptors to dust,
  4. be mobile plant capable of re-location in response to the items above,
  5. keep drop heights from conveyors to a minimum, whilst having regard for operational need and safety,
  6. mobile plant will be subject to on site speed limits to reduce dust generation.
- Materials will moved around the site using an on-site loading shovel or equivalent and discharges from the machine will be conducted so as to minimise drop heights when off loading
- The Isles of Scilly Complex Special Area of Conservation (SAC), which is a coastal marine SAC is situated to the north and west of the site and within screening distance. Using the procedures herein, it is highly unlikely that dust will be a significant risk to the SAC site. As an added level of protection, receipt of wastes which are in powder, dust or fibrous form will not be permitted.
- Site roads and tracks will be kept in a good state of repair.
- In the event of failure/breakdown of site plant or equipment which could lead to dust release, operations will be suspended until the repairs are completed or replacement plant/equipment is provided.

### **Complaints Procedure**

On receipt of a complaint, the on-site operative will be informed or, if received directly by the operative, details will be immediately communicated to the Mulciber main office.

A complaint record form will be completed (appendix 1 hereto).

If the complaint occurs whilst the site is manned, an immediate investigation of possible causes of any complaint will be undertaken, including a record of prevailing wind and estimated speed. In the event that the site is not manned the investigation will be conducted as soon as possible.

Outcomes from the complaint investigation will be recorded on the complaint record form

The procedures given above will be used to change operations such as to remove the source of dust release, by use of such measures as changing location of operations such as loading points, re-location of mobile plant to downwind locations, application water to stockpiles/site roads etc. All mitigation measures deployed will be recorded on the complaint form.

## **Monitoring and Training**

Prior to commencement of operations, an assessment will be made of prevailing weather conditions, primarily wind direction and speed and general state of materials in storage and to be processed (are materials wet?). Where required, materials will be dampened before and during processing. A record will be kept of the daily pre-commencement, weather assessments and responses thereto. (Appendix 2)

If weather conditions are indicative of possible risk of dust release to sensitive receptors, prior to commencement of operations and periodically throughout the operational day, the boundary of the site will be subject to visual assessment by a trained site operative, for the release of dust. A record of these assessments and outcomes, will be kept in the site records.

The results of the assessment will be used to inform any possible requirements for changes to site operations so as to control the releases of dust beyond the site boundary.

Site operatives will be trained, by a Mulciber manager in these procedures and the record keeping required thereunder.

## **LITTER**

Waste received at the site will be inert in nature and, for the most part, be free of materials which are likely to become airborne and lead to litter release.

Monitoring of the site boundary for the purposes of assessment of dust release will be used to check for the presence of any litter beyond the site boundary. Any litter observed during these checks will be removed forthwith and be disposed of appropriately

The risk of litter release is therefore considered to be very low.

## **MUD**

Mud may be generated by activities on the site particularly during periods of inclement weather. Mud thus generated may be carried from the site on the wheels of vehicles exiting the site.

The main receptors to deposition of mud are;

- MacFarlands Down, an unclassified road, of ca 155m in length connecting the site access to the A3110 to east south east of the site,
- The A3110 classified road app 155m to the east-southeast of the site entrance.

The site is accessed by an unmetalled track, leading from MacFarlands Down, an unclassified, metalled surfaced road which connects the site access to the A3110 approximately 155m to the east south east of the site entrance.

The access track has a stone/hardcore surface and runs for approximately 35m into the site to the proposed waste reception area. The access track will be kept in good condition and will be cleaned of mud deposits regularly, using on site plant.

Macfarlands Down runs for approximately 155metres, from the site entrance, to the A3110 from which road access is gained to the site.

The nature and scale of the intermittent use of the site for receipt and removal of materials, with the corresponding effect of a low vehicle flow means that mud will for the most part, be cleaned from vehicle wheels on the site access track.

Any mud deposited on Macfarlands Down will be cleaned as soon as practicable after discovery, using site plant.

The intervening distance between the site and the A3110, combined with the low intermittent vehicle flow to and from the site mean that there is a very low risk of mud deposition on the A3110.

In severe conditions involving excessive build-up of mud on site, where the risk of tracking onto access roads is considered likely to be excessive, delivery to and removals from, the site, will be suspended until normal operating conditions are re-established.

**APPENDIX 1 COMPLAINT RECORD FORM**

Complainant Name		
Address		
	Tel:	
Date & Time		
Subject of complaint;		
Did complaint relate to site?		
Was complaint justified?		
Was there a significant nuisance? If yes, notify Main office immediately		
What actions were taken to rectify problem(s)?		
Were the Environment Agency/Local Authority notified/Involved?		
Which Agency/Authority was notified/Involved?		
What was the outcome of Site Investigations?	Was a successful outcome achieved?	
Print name and sign	Date;	

## **APPENDIX 2 WEATHER ASSESSMENT FORM**

<b>SITE NAME</b>	<b>DATE AND TIME;;</b>
<b>WIND SPEED AND DIRECTION;</b>	
<b>WEATHER CONDITIONS</b>	<b>STOCKPILES WET/DRY?</b>
<b>LIKELIHOOD OF DUST GENERATION?</b>	<b>DUST EVIDENT ON SITE?</b>
<b>ACTIONS REQUIRED/TAKEN?</b>	
<b>If considered necessary to suspend operations immediate referral to main office required.</b>	
<b>Print and sign;</b>	<b>Date;</b>