

H1 Risk Assessment
Prepared on Behalf of
Robin Chapman Ltd
Site at Copse Quarry, Landshire Lane, Henstridge, BA8 0SD
April 2022



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 For the site at Copse Quarry, Landshire Lane, Henstridge, BA8 0SD
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QUALITY MANAGEMENT

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EXECUTIVE SUMMARY

This document represents the application H1 Risk Assessment submitted as part of an application to the Environment Agency (EA) for an environmental permit (EP). The EP is sought to permit the recovery of waste. This allows the reuse of inert waste materials such as soil, hardcore and construction waste in lieu of virgin stone excavated from a quarry.

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1 INTRODUCTION

- 1.1. Robin Chapman Limited is applying to the Environment Agency for a bespoke Environmental Permit for a waste recovery activity at Copse Quarry, Landshire Lane, Henstridge, BA8 0SD.
- 1.2. The proposed works include engineering operations to restore a disused quarry as set out in an original condition to the planning permission that was gained to open the construction stone quarry. More recently, Somerset County Council has granted Planning Permission for the importation of suitable inert material in order to achieve the restoration scheme as approved under planning permission reference SCC/3728/2020.
- 1.3. This H1 environmental risk assessment has been carried out to assess the environmental risk posed by the proposed the recovery of inert construction waste at Copse Quarry.

2 RISK ASSESSMENT

Event	Likelihood of Occurrence	Consequence of Occurrence	Actions taken or proposed to minimise the chances of it happening	Actions Planned if the event does occur
Dust Emissions from Construction works	Only likely in periods of dry weather, the construction area is quite shielded from the wind as it is in the bottom of a valley	Nuisance dust emissions over deciduous woodland and on surrounding farmland.	Monitor weather conditions, wind, frequency of rain and warm weather to minimise dust through good practice within the Permitted Area.	Implement environmental controls such as dust suppression system (sprinkler or bowser). Please refer to approved dust management plan.
Dust Emissions from Traffic	Only likely in periods of dry weather, access roads are mainly comprised of hardcore.	Nuisance dust emissions over deciduous woodland and on surrounding farmland.	Bowser used to dampen down the haul road. Monitor weather conditions	Implement environmental controls such as road sweeping and/or clean HGV tyres with wheel wash.
Mud on public highway and private access roads	Only likely in periods of wet weather.	Mud could find its way onto the adjacent public highway which as well as the nuisance might pose a safety hazard	The site entrance road will be swept at regular intervals to prevent any build-up of mud or debris.	Vehicles will be inspected before leaving the site and will be cleaned if necessary to prevent mud being tracked onto the adjacent highway.
Noise Emissions to Properties	Unlikely, construction noise likely to be negligible above other traffic noise.	Noticeable background noise from construction with traffic noise. Farm yards are nearest receptors.	Good practice, not over revving engines, white noise reverse warning, maintenance of plant and machinery, avoid double handling of material to reduce vehicle movements.	Investigate noise source and halt this activity. Meet complainant.
Vibration	Negligible offsite	Nuisance to operators of construction plant	Construction engineering material will absorb local vibration of plant	Investigate vibration source and halt this activity. Meet complainant.

Event	Likelihood of Occurrence	Consequence of Occurrence	Actions taken or proposed to minimise the chances of it happening	Actions Planned if the event does occur
Surface water pollution from fuel	Highly unlikely, machines will not be re-fuelling in the Permitted Area, machines will be checked to make sure they are in good working order.	Risk of pollution and detrimental effect on aquatic life if allowed to reach surface water.	Machines re-fuelled outside of the Permitted Area.	Spill Kits will be used to soak up fuel and bund the spill. Investigation of procedure, notify EA.
Groundwater Pollution from waste	Highly unlikely considering permitted waste types. Water table sits below base of quarry.	Although the occurrence is unlikely to happen, if there is any surface water runoff it will be contained and dealt with accordingly	Working practice and operational procedures are in place to minimise the potential for groundwater pollution	Treated as an emergency and spill kits to be used to prevent infiltration
Groundwater pollution from fuel	Unlikely as machines will all be in good working order. Machines will not be re-fuelling in waste recovery footprint.	Major effect of pollution on water regime, flora and fauna of ecosystem	Machines fuelled outside footprint.	Treated as an emergency and spill kits to be used to prevent infiltration
Impact on Agricultural Land	Very unlikely, as the Permitted Area is well separated from any used agricultural land	Effect on flora and fauna from dust or contaminated water	Good working practice and management. Weather conditions to be monitored.	Implement environmental controls such as dust suppression system (sprinkler or bowser). For contaminated water –Investigate and notify EA.

3 NOTES

- 3.1 The risk assessment illustrates that events are unlikely to occur at the site and if they do there are procedures in place. The procedures allow for the management and operation, based on current practice, to minimise the risk and control the situation if an incident was to occur.
- 3.2 Surveys and monitoring of the construction are undertaken regularly to satisfy Regulatory requirements to comply with the Planning Permission and will also be in place for the Environmental Permit.
- 3.3 Materials imported to site for the restoration of the quarry will not be stored on site. They will be hauled onto site and placed directly into the construction area.
- 3.4 Inert waste brought onto site will have the following to ensure that it is compliant with the permit;
- Duty of care transfer note
 - Basic characterisation of waste including description, waste codes, and composition of waste.
- 3.5 Water falling within the Permitted Area will be impounded and used for dust suppression, adding moisture for compaction and damping down waste in periods of dry weather.