Environmental Risk Assessment

Permit No.: EPR/CB3934RB/V005

EAWML Ref.: 103524

Facility Type: A25 *Deposit of waste to land as a recovery operation*

Permit Type: Recovery for Quarry Restoration

Operator: Holcim UK

Registered Office: Bardon Hall, Copt Oak Road, Markfield,
Leicestershire, LE67 9PJ

Site: Kempsford Quarry, Washpool Lane,
Kempsford, Gloucestershire, GL7 4NJ

Date: - As originally submitted

1 Introduction

1.1 Kempsford Quarry

Operated and owned by Holcim, Kempsford Quarry (also known as Manor Farm Quarry) is an extractive mineral operation working Glacio-fluvial Sand and Gravel deposits over an area of approximately 67 hectares between the villages of Kempsford and Whelford in Gloucestershire, as shown in Figure 1. Extraction commenced in 2002 under Planning Permission CT6788/A, issued by Gloucestershire County Council.

1.2 Restoration Scheme

The planning permission requires the site to be progressively restored using inert materials and the land returned to agricultural use.

The restoration scheme requires clayey materials to be imported and placed as a capping layer over the silt ponds located in the southern part of the site. Inert excavation waste from development schemes has been identified as a suitable source of this material. The use of waste material within the restoration scheme was assessed as a recovery activity in accordance with Environment Agency Regulatory Guidance Note RGN 13 and Permit No. EPR/CB3934RB, the site is authorised to accept up to 600,000m³ of waste per year.

: Environmental Risk Assessment

What do you do that can harm and what could be harmed?			Managing the risk	Assessing the risk		
Hazard	**Receptor**	**Pathway**	**Risk Management**	**Probability of exposure**	**Consequences**	**What is the overall risk?**
What has the potential to cause harm?	*What is at risk? What do I wish to protect?*	*How can the hazard get to the receptor?*	*What measures will you take to reduce the risk? If it occurs – who is responsible for what?*	*How likely is this contact?*	*What is the harm that can be caused?*	*What is the risk that still remains? The balance of probability and consequence*
Plant and equipment	Members of the public	Atmosphere (noise)	All vehicles, plant and machinery shall be operated and maintained in accordance with the manufacturer's specifications at all times, and shall be fitted with and use effective silencers. The Site Manager or deputy shall be responsible for monitoring noise levels in accordance with the noise control scheme and implementing appropriate control measures in the event that noise exceeds the specified levels.	The site is located in a rural area with few neighbouring properties, making the probability of exposure low.	Nuisance	Low
Plant and equipment	Local environment	Ground (vibration)	The Site Manager or deputy shall be responsible for monitoring vibration levels at the site and shall instigate remedial action if necessary.	Unlikely due to the small scale of the recovery operation.	Nuisance	Negligible
Plant and equipment Dust from loading and unloading of vehicles Dust from site roads	Local environment Members of the public	Atmosphere (dust)	The Site Manager or deputy shall be responsible for monitoring dust levels and implementing appropriate control measures in the event that dust emissions exceed acceptable levels.	The site is located in a rural area with few neighbouring properties, making the probability of exposure low.	Nuisance	Negligible
Mud tracked onto local roads	Local environment	Vehicles leaving the site	Site roads are hard surfaced in the vicinity of the entrance/exit and shall be cleaned using a road sweeper as required; sweeper operation will extend on to the public highway if necessary. The Site Manager or deputy shall be responsible for monitoring the access road to the site and implementing remedial action if necessary.	Unlikely due to the measures taken to mitigate the risk.	Nuisance	Low

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Site drainage	Surface water	Direct run-off (solids in suspension)	Surface drainage is directed into the site drainage system and discharged into the Dudgrove Stream under the terms of discharge consent EPR/SP3893VZ. The Site Manager or deputy shall be responsible for monitoring the operation of the drainage system and ensuring that the requirements of the discharge consent are complied with.	Unlikely due to the measures taken to mitigate the risk.	Contamination of local watercourse	Low
Site drainage	Groundwater	Percolation (ingress of chemicals)	None; percolation is not expected to be a problem since the materials being recovered are inert.	Unlikely due to the inert nature of the materials being recovered.	Contamination of aquifers	Negligible
Acceptance of waste that is not inert	Local environment	Mixed with inert waste used for restoration	Waste acceptance and tipping procedures shall be implemented and trained out to all staff. The Site Manager or deputy shall be responsible for ensuring that procedures are followed and any non-inert waste are either rejected on arrival or quarantined.	Unlikely due to the measures taken to mitigate the risk.	Contamination of the restoration material	Negligible
Odour from wastes	Local environment Members of the public	Atmosphere	None; odour is not expected to be a problem since the materials being recovered are inert.	Unlikely due to the inert nature of the materials being recovered.	Nuisance	Negligible