



Airfield Quarry

Inert Waste Recovery Operation

Environmental Management System

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Land &
Mineral
Management

Notice

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Appendix A – Emergency Contact Details

Separately Bound

Appendix B - HQP Waste Acceptance Procedure

Drawing D10_LAN_259 Environmental Permit Boundary

Foreword

This outline EMS has been produced for the purpose of accompanying an Environmental Permit application at Airfield Quarry. The restoration of the quarry will be carried out using imported inert wastes and due to the scale and location of the quarry a bespoke Permit is required.

This outline EMS will be subject to update and review as part of the Permitting process and during development of the site, and after the restoration works have commenced it will be subject to regular review and updating as a “live” document, along with it’s appendices to reflect operational changes or any other reason required by HQP.

This document forms part of a wider network of documents relating to management of HQP sites and protection of the environment, beyond the requirements of a Permit. This includes Environmental Working Procedures and an Environmental Management System Overview. This Outline EMS has been drafted to reflect the Permit requirements, and overlaps with other management documents so should not be considered in isolation.

1 Site Details including Infrastructure, Engineering & Mobile Plant

1.1 Pertinent details pertaining to the site are listed in the table below.

Site Details		
Site Location	Address:	Airfield Quarry, Gally Leaze, Gloucestershire
	NGR:	SU 10790 95319 See Drawing D10_LAN_259 which shows permit boundary
Operator Details	Address:	Hills Quarry Products Ltd
	Head Office Telephone No.	01793 781200
	Competent Person:	TBC before site operational
	Site staff:	TBC
Emergency Contacts		Located in Appendix A.
Site Infrastructure		Site Infrastructure Plan to be produced when site established.
Plant		Inert waste brought to site in HGVs.
		Plant will be maintained in accordance with manufacturer's specifications. Records of all testing, servicing and calibration of equipment will be kept at Head Office.
		Plant will include 360° tracked excavators / dozers and dumper trucks.
Equipment & Stores		Iso type container, fuel stores as required.
Site security		Site secured by lockable gates and hedge vegetation;
		Public access not permitted to restoration areas. Site access and boundaries to be inspected on a regular basis by Site staff. Repair requirements will be noted in the Site Diary and actioned within five working-days.
Site notice		Site notice board maintained at site entrance, with following details: <ul style="list-style-type: none"> the permit holder's name; an emergency contact name and telephone number; a statement that the site is permitted by the Environment Agency; the permit number; Environment Agency telephone number 03708 506506 and incident hotline 0800 807060.

Equipment & Stores

1.2 Firefighting equipment, Oil Spillage Kit and First Aid Kit will be kept in the mobile plant or at the Site Office. A double banded fuel bowser will be present on site during the working day and this will be taken to the Plant site at the end of each working day. Any additional fuel storage will be in appropriate containers at the Plant site.

1.3 This outline EMS does not include a site infrastructure plan as one has not historically been required for Recovery Permits. The nature of the operations mean that the restoration is at a constantly changing location and no significant infrastructure is required.

2 Waste Acceptance Procedures

2.1 This is addressed in the separately bound Appendix B.

Outline

3 Site Operations

Staffing

- 3.1 The site will be run by technically competent management, with a Certificate of Technical Competence (CoTC) to an appropriate level, or above.

Daily Site Inspection

- 3.2 At the start of each working day the operator will inspect the Site to ensure that there have been no incidents overnight. The inspection will ensure that the entire Site is intact and free from any obstructions or damage and no disturbance to the site has taken place.
- 3.3 Any defects identified by the Initial Daily Site Inspection will be rectified. The operator will record details of the incident, detailing its cause(s) and any remedial measures employed, in the Site Diary. The Site Staff will report the matter, verbally, to the Site Operator before the end of the working day.
- 3.4 Once the Initial Daily Site Inspection is complete and normal site operating conditions are confirmed, including the completion of any necessary remedial actions, the Site will accept waste.

Permitted Waste Types

- 3.5 The permitted waste types are listed the Permit. The annual amount of waste to be accepted in the recovery operation will average 200,000 tonnes per annum.

Waste Storage

- 3.6 Waste storage will be limited with direct placement of waste materials where possible. Up to 50,000 cubic metres may be stored in areas identified for storage, to accommodate fluctuations in material availability.

Weekly Inspection

- 3.7 A Weekly Site Inspection will be carried out to assess:
- The correct nature of wastes that are being stored/deposited;
 - Any evidence of pests & vermin;
 - The satisfactory operation of the waste recording system; and
 - The general condition of the site.

- 3.8 At the end of each working day, the Operator will ensure any waste awaiting placement is appropriately stored, all mobile plant is safely and securely parked at the sand and gravel processing Plant Site and the Site is left in a tidy condition.

Design and Construction Quality Assurance

- 3.9 The engineered site barrier will be designed in accordance with recognised standards, methodologies and practices. The design process will use a risk-based approach and will be appropriately documented using drawings, specifications and method statements to provide an adequate audit trail. Construction Quality Assurance (CQA) plans will be prepared by competent and suitably qualified persons. A competent and suitably qualified person will supervise the construction activities.

4 Environmental Control Measures

Dust

4.1 Inert material has the potential to be dusty when dry and deposited for restoration. On-site transportation of the restoration material also has the potential for re-suspension of dust on haul roads.

4.2 The deposit of inert materials is controlled by the operational staff, particularly when the risks of impact are highest:

1. When tipping is undertaken closest to receptors;
2. When the inert material is dry; and
3. When the weather is dry and winds are above 5m/s.

A water bowser is available at the site should additional application of water is required on the areas within the site undergoing restoration.

4.3 Two wheel washes are provided, one for vehicles using the plant site area and the other for vehicles which have delivered inert material to the restoration area and are leaving the site. Additionally a road sweeper is hired as necessary, with the frequency dictated by the season, level of operations and other on site conditions.

Monitoring will form part of the restoration operations, including :

Monitoring of the conditions which may lead to dust release (i.e. 'source');

Monitoring of the weather conditions which may lead to dust impacts at receptors (i.e. 'pathway'); and

Monitoring of the dust itself along (and outside, if necessary) the site boundary ('receptor').

4.4 Daily dust checks are completed and logged. The checks relate to the conditions which may lead to dust release as well as monitoring of the dust itself along and outside, the site boundary. A windsock provides an additional visual guide as to the wind strength and direction. The monitoring locations vary around the site depending on the progress of the restoration.

Noise

4.5 A noise assessment has been carried out for the entirety of the works at Airfield Quarry which demonstrates that there is no unacceptable risk to sensitive receptors from the works that will fall within the Permit. The EA have confirmed no further assessment or noise management plan required under this Permit (EA letter 14 12 2021 EPRKB3507KYA001). The stand off of waste activity to

sensitive noise receptors exceeds 10m in all instances, with separation including margins to hedges and trees, soil bunds and the public highway.

- 4.6 The restoration works will however, as part of the planning consent and recognising them as integral to the quarry follow the noise management, mitigation and monitoring measures that the planning permission references. The EMS will be updated to address those prior to commencement.

Odour

- 4.7 Due to the inert nature of the waste, odour nuisance is considered to be a very negligible risk.

Mud and Debris

- 4.8 To control mud being deposited on the public highway drivers will be instructed to ensure that before leaving the Site or the internal haul road the wheels and chassis of their vehicle are clean and if necessary to remove all mud or detritus from the wheels and chassis before joining any public highway. Two wheel washes are provided.

Litter

- 4.9 The accepted waste types should not give rise to litter problems.

Pests & Vermin

- 4.10 Problems arising from scavenging birds, pests and vermin are unlikely due to the waste type.

Surface & Ground Water

- 4.11 Although the hydrological risks are low due to the management of the Site and the inert nature of the incoming materials, the following actions will be adopted:
- Waste Acceptance Procedure to ensure that only inert materials are accepted;
 - Fuelling and maintenance of plant and vehicles in accordance with best practice guidelines;
 - No storage of polluting liquids such as oils and fuels on Site, except in appropriate bunded storage facilities; and,
 - Spill kits will be made available.
- 4.12 Current EA guidance on an EMS requires that the potential for additional impacts to arise as a result of climate change area considered. The quarry restoration is not at significant risk of flooding nor is it considered vulnerable to flooding. Additional rainfall, as a result of climate

change will be managed as the current measures, and will also be utilised where necessary for dust suppression required as a result of drier weather as a result of climate change.

Outline

5 Environmental Accidents

Emergency Procedures

Immediate Response

- 5.1 Site Staff shall carry radios for safety purposes. Where appropriate to the accident, immediate actions shall include:

- Raising alarms if human / environmental safety is at risk;
- Ensuring all persons are evacuated from any danger area; and
- Contacting the relevant Emergency Services.

Secondary Actions

- 5.2 Potential events / failures that could lead to a human / environmental accident, their possible consequences and the actions to be taken to deal with the accident are outlined in this section.

Reporting

- 5.3 The company have a system that includes an Environmental Incident flowsheet.

Investigation of Accident

- 5.4 The company have a system that includes an Environmental Incident flowsheet.

General Contingency Provisions

Site Shut Down

- 5.5 When conditions arise on Site which prevent normal working methods and give rise to pollution risks or emergency situations, the Site will shut down until normal working conditions can be resumed.

- 5.6 When the site is shut down, where conditions permit, the Operator will ensure that all inert waste not yet used shall be appropriately stored.

Mobile Plant & Machinery Failure

- 5.7 In the event of a breakdown or malfunction the machinery shall be repaired and subject to a full inspection to ensure its normal operation prior to re-commencing operation again.

Investigation of Incident

- 5.8 The incident / shutdown will be investigated by the Operator to establish the reasons and, where possible, mitigation measures instigated in order to prevent a repeat occurrence.

Training

- 5.9 All Site Staff will be suitably trained in the operation of accident management provisions including firefighting procedures.

Emergency Equipment

- 5.10 Spill kits/firefighting equipment and first aid provision will be located near to hand as detailed in the operational RA. The Operator shall ensure protective clothing is available at the sand and gravel processing Plant Site. A fresh water supply for firefighting is available from nearby lagoons.

Water & Land

Potential accidents

- 5.11 Potential accidents that could lead to pollution of water or land interests include:
- Run-off from un-intentionally accepted hazardous wastes;
 - Failure of vehicles and plant e.g. fuel leak; or
 - Inappropriate repair, maintenance and fuelling of vehicles and plant.

- 5.12 Actions to avoid potential accidents include:
- Strict operation of waste acceptance procedures;
 - Maintenance and inspection regime for all site plant and vehicles; and,
 - Repair and refuelling off site.

Minimising Impact

- 5.13 In response to an accident as outlined above, the following actions will be instigated by the Site Staff as appropriate to the incident:
- Isolate and remove hazardous waste as per waste acceptance procedures;
 - Immediate use of spill kits and take measures to stop any leakage; and
 - Inform the Site Operator / Environment Agency.

Fire

- 5.14 The nature of an inert recovery operation does not lead to any significant risk of fire.

6 Communications & Record Keeping

- 6.1 The Operator will ensure that this Management System and any updates or reviews are communicated to all Site Staff involved in the operation of the site.
- 6.2 Any sub-contractor involved in the operations will be supplied with a copy of the Management System which they must comply with as relevant to their work.

Waste Records

- 6.3 Records will be kept of the full details of all waste brought to the site, as detailed in the WAP. All Transfer Notes of the waste accepted at the Site will be retained by the Operator as required by legislation and the Permit.

Site Diary

- 6.4 The Environmental site diary is kept in the site office, recording:.....

Other Record Keeping

- 6.5 In addition to the Site Diary the Operator will also keep: WAF and weighbridge tickets on site.
- 6.6 All environmental records associated with the site shall be kept for a minimum of six years or in accordance with the requirements of the Environmental Permit. All records may be in either electronic or paper or a mix.

Complaints

- 6.7 Any complaint received at the site will be immediately investigated by the Operator. Where appropriate, remedial action will be taken.
- 6.8 Site Staff will report any complaint to the Operator within 24 hours. The original complainant will be informed of the outcome of the investigation of the complaint and any actions taken within 5 working day.
- 6.9 Details of each complaint, including the complainant's details, actions taken and outcomes will be recorded in the Site Diary.

7 Management, Site Staff and Training

Management

- 7.1 Direct responsibility for the Management System is held by the Operator, who is also responsible for managing the technically competent staff. Technically competent staff will report directly to the Operator. Site Staff will include, or report directly to, technically competent staff.
- 7.2 The Operator will undertake an annual audit of the Management System to ensure the site is operating effectively. Interim informal audits will also take place in response to changes to the site's operation, permit, company changes, incident/accidents, complaints, legislation and use of new plant or techniques.

Operational Staff

- 7.3 The Site Staff involved in the operations will be fully conversant with the contents of the Management System as relevant to their daily duties.

Training

- 7.4 The Operator will ensure that the Technical Competency is maintained in accordance with industry requirements. Suitably qualified staff will be brought in to manage the Site if this is not the case.
- 7.5 Site Staff will be suitably trained in their roles and responsibilities with on-Site training by technically competent management to ensure that they conduct their duties in compliance with the Management System.
- 7.6 Management will periodically review the Company's environmental policy and objectives.

Appendix A – Emergency Contact Details

(not in outline version)