



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Dorrington Quarry Landfill Site

H Evason and Co
Dorrington
Shrewsbury
Shropshire
SY5 7EE

Permit number
YP3932LW

Dorrington Quarry Landfill Site

Permit Number YP3932LW

Introductory note

This introductory note does not form a part of the permit

The main features of the installation are as follows.

Dorrington Quarry Landfill site is situated some 9 km south of Shrewsbury town centre, on the northern edge of the village of Dorington at NGR SJ 477 036.

The installation is underlain by the Coed-yr-Allt Beds of the Carboniferous Upper Coal Measures which are generally described as being grey mudstones with sandstone beds and coal seams. These beds vary up to 120 metres in thickness and they rest unconformably on Pre-Cambrian strata of the Portway Formation which comprise siltstones and sandstones. The Coed-yr-Allt Beds are a minor aquifer. The groundwater table dips to the north and is situated some 6 and 8 metres beneath the site.

The landfill has been in Operation since 1998. The site was previously licensed under Waste Management Licence (WML) Ref A25/30/SL/248. This permit application is for inert waste with a total quantity of approximately 54,667m³.

The area covered by the extent WML which includes both the current landfill site and an area used for recycling, extends to some 4.90 hectares. The PPC installation boundary extends to some 1.41 hectares. The southern part of the quarry void has been infilled with inert material and will be closed under the existing WML. The recycling facility does not form part of this PPC Permit Application.

The installation is separated by a physical barrier from previous areas of waste deposit. The proposed lining system comprises 1 m of clay on the base and side slopes engineered to a permeability of 1×10^{-7} m/s and a 500 m coarse secondary aggregate leachate collection layer. Landfilling significant quantities of inert waste can cause environmental pollution due to the release or escape of dust, mud and noise. The permit conditions require specific mitigation measures and monitoring to be carried out which are documented by the permit holder.

The applicant has an incident reporting procedure incorporating into the management systems which ensures that any non-compliance issues are investigated and resolved.
No European sites or SSSI's are located within the specified distance criteria.

Status log of the permit		
Detail	Date	Response Date
Application YP3932LW	Received 09/05/2006	
Schedule 4 Notice	Request dated 04/10/2006	Responses dated; 15/11/2006 (Response to non-technical issues) 17/11/2006 (Amended SRA and calculations) 20/11/2006 (Revised SRA and revised HRA text) 22/11/2006 (HRA drawings) 24/11/2006 (Groundwater analysis) and 29/11/2006 (Raw materials inventory).
Permit determined	27/03/2007	

Permit

Pollution Prevention and Control (England and Wales) Regulations 2000
Landfill (England and Wales) Regulations 2002

Permit

Permit number

YP3932LW

The Environment Agency (the Agency) in exercise of its powers under regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) and Regulation 6 of the Landfill (England and Wales) Regulations 2002 (SI 2002 No.1559) hereby authorises

H Evason and Co ("the Operator"),

whose Registered Office is

Wayford House

Dorrington

Shrewsbury

Shropshire

SY5 7EE

Company registration number 623328

to operate an installation at

Dorrington Quarry Landfill site

Dorrington

Shrewsbury

Shropshire

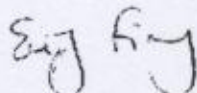
SY5 7EE

to the extent authorised by and subject to the conditions of this permit.

Signed

Date

27th March 2007



Emily Finney

Authorised to sign on behalf of the Agency

Superseded or partially superseded licences/authorisations/consents relating to this installation

Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Mr Charles Richard Evason	A/25/30/SL/248	08/06/1998	Partially superseded

Other existing licences/authorisations/registrations relating to this site

Holder	Reference Number	Date of issue
Mr Charles Richard Evason	A/25/30/SL/248	08/06/1998

End of Introductory Note

Conditions

1. Management

1.1 General management

1.1.1 The Activities shall be managed and operated:

- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Accidents that may cause pollution

1.2.1 The operator shall:

- (a) maintain and implement an accident management plan;
- (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
- (c) make any appropriate changes to the plan identified by a review.

1.3 Finance

1.3.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Agency dated 27/03/2007 shall be maintained by the operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by the Agency.

1.3.2 The operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:

- (a) the costs of setting up and operating the landfill;
- (b) the costs of the financial provision required by condition 1.3.1; and
- (c) the estimated costs for the closure and aftercare of the landfill.

1.4 Site security

1.4.1 Site security measures shall prevent unauthorised access to the site, as far as practicable.

2. Operations

2.1 Permitted activities

2.1.1 The operator is authorised to carry out the activities specified in schedule 1 table S1.1 (the "Activities").

2.2 The site

2.2.1 The Activities shall not extend beyond the Site, being the land shown edged in orange on the site plan at schedule 2 to this permit.

2.3 Operating techniques

2.3.1 The Activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1 table S1.2, unless otherwise agreed in writing by the Agency.

2.4 Off-site conditions

There are no conditions in this permit to which Regulation 12(12) of the PPC Regulations apply.

2.5 Improvement programme

2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.

2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

2.6 Pre-operational conditions

2.6.1 The Activities shall not be brought into operation until the measures specified in schedule 1 table S1.4 have been completed.

2.7 Engineering

2.7.1 No construction of any new cell shall commence until the operator has submitted construction proposals and the Agency has confirmed that it is satisfied with the construction proposals.

2.7.2 The construction of a new cell shall take place only in accordance with the approved construction proposals unless:

- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
- (b) a change has otherwise been agreed in writing by the Agency.

- 2.7.3 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and the Agency has confirmed that it is satisfied with the CQA Validation Report.
- 2.7.4 No construction of landfill Infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and the Agency has confirmed that it is satisfied with the construction proposals.
- 2.7.5 The construction of the Landfill Infrastructure shall take place only in accordance with the approved construction proposals unless:
- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
 - (b) a change has otherwise been agreed in writing by the Agency.
- 2.7.6 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant Landfill Infrastructure.
- 2.7.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.7.4 and 2.7.5 do not apply and the relevant Landfill Infrastructure may be constructed, provided that the construction proposals are submitted to the Agency as soon as practicable.
- 2.7.8 For the purposes of conditions 2.7.1, 2.7.3 and 2.7.4, the Agency shall be deemed to be satisfied where it has not, within the period of 4 weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
- (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.8 Waste acceptance

- 2.8.1 Wastes shall only be accepted for disposal if:
- (a) they are listed in schedule 3, and
 - (b) they are inert waste, and
 - (c) they are not liquid waste, and
 - (d) all the relevant waste acceptance procedures set out in schedule 1 of the Landfill Regulations have been completed, and
 - (e) they fulfil the relevant waste acceptance criteria, and
 - (f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (g) from 30th October 2007 they are wastes which have been treated, except for wastes for which treatment is not technically feasible.
- 2.8.2 The operator shall visually inspect:
- (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
 - (b) waste at the point of deposit;

and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.

- 2.8.3 Where the operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.8.4 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.5 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing DESID5.
- 2.8.6 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.8.7 The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.9 Closure, aftercare and decommissioning

- 2.9.1 The operator shall maintain and operate the Activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.

3. Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land.

3.2 Emissions to groundwater

- 3.2.1 There shall be no emission from the activities into groundwater of any substance in List I (as defined by the Groundwater Regulations) contrary to those Regulations.
- 3.2.2 There shall be no emission from the activities into groundwater of any substance in List II (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).
- 3.2.3 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in schedule 4 table S4.1 shall not be exceeded.
- 3.2.4 The operator shall submit to the Agency a review of the Hydrogeological Risk Assessment:
 - (a) between 9 and 6 months prior to the fourth anniversary of the granting of the permit, and
 - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the permit.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 Litter or mud arising from the activities shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.
- 3.3.3 Litter or mud arising from the activities shall be cleared from affected areas outside the Site as soon as practicable.
- 3.3.4 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.
- 3.3.5 The limits for landfill gas arising from the installation set out in schedule 4, tables S4.2 and S4.3, shall not be exceeded.
- 3.3.6 The limits for particulate matter arising from the installation set out in schedule 4, table S4.6, shall not be exceeded.

3.4 Odour

- 3.4.1 No condition applies.

3.5 Noise and vibration

- 3.5.1 Emissions from the Activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring for the parameters, specified in the following tables in schedule 4 to this permit:
 - (a) Groundwater specified in tables S4.1 and S4.5;
 - (b) Landfill gas specified in tables S4.2 and S4.3;
 - (c) Surface water specified in table S4.4; and
 - (d) Particulate matter specified in table S4.6.
- 3.6.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.6.3 A topographical survey of the site referenced to Ordnance Datum shall be carried out:
 - (a) annually, and

- (b) prior to the disposal of waste in any new cell or new development area of the landfill, and
- (c) following closure of the landfill or part of the landfill.

The topographical survey shall be used to produce a plan of a scale adequate to show the surveyed features of the site.

4. Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) the results of groundwater and surface water monitoring;
 - (ii) sub-surface landfill gas monitoring;
 - (iii) waste types and quantities; and
 - (iv) the specification and as built drawings of the basal, sidewall and capping engineering systems

4.1.2. Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.

4.1.3. All records required to be held by this permit shall be held on the site and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted with the Application;
- (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
- (c) the annual production/treatment set out in schedule 5 table S5.2.
- (d) details of any contamination or decontamination of the site which has occurred;

- (e) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;
- (f) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
- (g) an assessment of the settlement behavior of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
- (h) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
- (i) the compliance testing undertaken in the period;

4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 5 table S5.1;
- (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.3; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency.

4.3 Notifications

4.3.1 The Agency shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
- (b) the breach of a limit specified in the permit;
- (c) any significant adverse environmental effects.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.

4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:

- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;
- (b) as soon as practicable prior to the cessation of the landfill disposal activities, for a period likely to exceed 1 month; and
- (c) at least 7 days prior to the resumption of the landfill disposal activities after a cessation notified under (b) above.

4.3.4 Where the Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.5 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.

4.3.6 The Agency shall be provided, within 14 days of the operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.

4.3.7 The Agency shall be notified within 14 days of the operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.

4.3.8 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

- (a) any change in the operator's trading name, registered name or registered office address;
- (b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and
- (c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 Activities		
Activity listed in schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2 Part A(1) (b), The disposal of waste in a landfill.	Landfill for inert waste (landfill classification under the Landfill Regulations 2002)	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in the conditions in Section 2.8, as an integral part of landfilling.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to questions 2.1 and 2.2 in Part B of the Application Form excluding the answer to questions; B1.4.2 (Stability Risk Assessment), B2.2.41 (Groundwater control and trigger levels and frequency of sampling), B2.2.47 (Landfill gas control and trigger levels), B2.2.64 (Particulate matter management), and B2.2.65 (Particulate matter monitoring).	09/05/2006
Response to Schedule 4	Response to non-technical issues. Amended SRA and calculations. Revised SRA and revised HRA text. HRA drawings. Groundwater analysis. Raw materials inventory.	15/11/2006 17/11/2006 20/11/2006 22/11/2006 24/11/2006 29/11/2006

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
1	Install proposed perimeter gas and groundwater monitoring boreholes PMP1, PMP2 and PMP3 shown on Drawing No ESID8. The Operator shall obtain approval from the Environment Agency for the construction method statements and technical specifications for the boreholes prior to installation.	By 29/06/2007
2	The Operator shall calculate and submit to the Agency for approval, revised limits for methane and carbon dioxide for perimeter gas monitoring boreholes PMP1, PMP2 and PMP3. The limits shall be based on at least 12 data sets for each monitoring location and shall be calculated in accordance with LFTGN03 'Guidance on the Management of Landfill Gas'.	By 30/06/2008
3	Install in accordance with LFTGN03 'Guidance on the Management of Landfill Gas' the proposed in-waste gas monitoring boreholes IMP9 and IMP10 as shown on Drawing No ESID8. The Operator shall obtain approval from the Environment Agency for the construction method statements and technical specifications for the boreholes prior to installation.	Within 2 months of completion of landfilling
4	The operator shall provide management assessment levels for carbon dioxide and methane for in-waste gas monitoring boreholes for incorporation into the Gas Monitoring and Action Plan. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the management assessment levels.	Within 2 months of completion of landfilling
5a	The Operator shall provide a Particulate Monitoring Action Plan, in accordance with the Agency guidance 'Monitoring of Particulate Matter in Ambient Air around Waste facilities (M17)', which details operating procedures for the implementation of: <ul style="list-style-type: none"> • Monitoring measures • Methods • Schedules • Techniques • Compliance action plans • Data management and reporting for the monitoring of particulate matter 	By 29/06/2007
5b	Following submission of the Particulate Monitoring Action Plan required by item 5a, and with the written agreement of the Agency, the revised procedures shall be incorporated in to the site working procedures.	By 31/07/2007
6	Table TGRA04 in the Gas Risk Assessment (Suggested Contingency Actions for Exceeding Control and Trigger Levels) shall be amended to include timescales for the actions to be taken in the event that a control or trigger level is breached. The amended action plan shall be submitted to the Agency for agreement. Once agreed it shall be incorporated into Table TGRA04 and form part of this permit.	By 29/06/2007
7a	The Operator shall calculate and submit to the Agency for approval, interim control and trigger levels for down gradient groundwater monitoring borehole GW1 shown on Drawing ESID11. Control and trigger levels shall be calculated for ammoniacal nitrogen, cadmium, chloride, mercury and nickel. Control and trigger levels shall be derived from all existing data using a methodology agreed in writing with the Environment Agency. Once approved by the Agency, the interim groundwater trigger levels shall read as part of Table S4.1.	By 29/06/2007

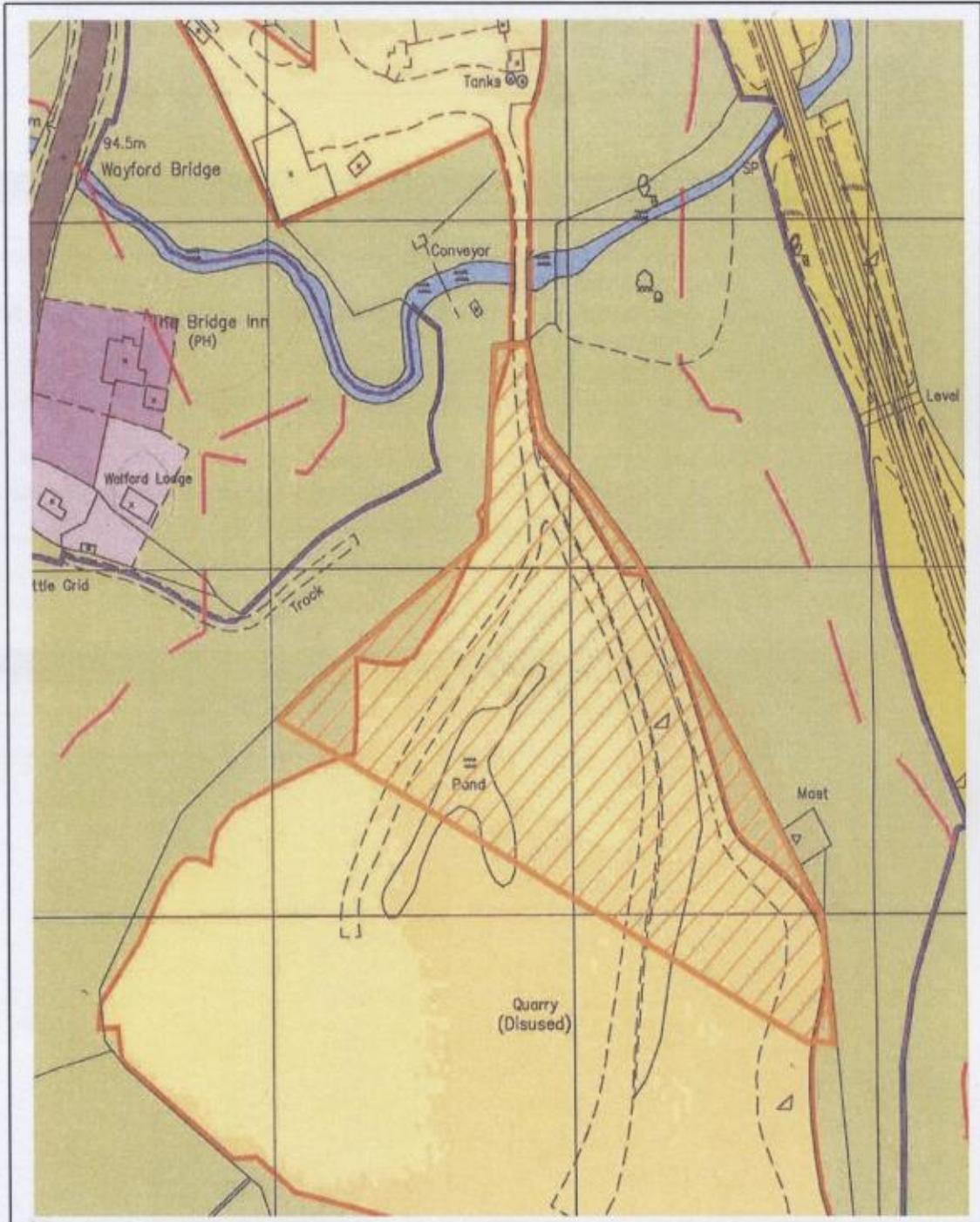
7b	<p>The Operator shall calculate and submit to the Agency for approval, control and trigger levels for down gradient groundwater monitoring borehole GW1 and proposed down gradient groundwater monitoring borehole PMP3. Control and trigger levels shall be calculated for ammoniacal nitrogen, cadmium, chloride, mercury and nickel.</p> <p>Control and trigger levels shall be derived from a minimum of 12 data sets using a methodology agreed in writing with the Environment Agency.</p> <p>Once approved by the Agency, the trigger levels will replace any interim groundwater trigger levels in Table S4.1.</p>	By 31/07/2008
----	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
1	<p>The operator shall provide the following information to be agreed in writing with the Agency prior to the activities being brought into operation:</p> <ul style="list-style-type: none"> • Shear strength parameters of the sand and gravel drift deposits, including actual laboratory derived cohesion and phi values, • slope stability calculations based upon the above, • shear strength parameters of the Glacial Till drift deposits, including actual laboratory derived cohesion and phi values, • slope stability calculations based upon the above, • further details on the materials present within the site and revise the stability assessments accordingly, and provision a site specific slope analysis for the application site.

Table S1.5 Annual waste input limits	
Category	Limit Tonnes/ Year
Inert Waste	49,999

Schedule 2 - Site plan

Dorrington Quarry Landfill Site Installation Plan



["Reproduced from the Ordnance Survey map with the permission of the Controller of Her Majesty's Stationery Office ©Crown Copyright 2000. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings."]

Schedule 3 - List of permitted wastes

Wastes that may be accepted without testing at a landfill for inert waste

EWC Code	Description	Restrictions
10 11 03	Waste glass based fibrous materials	Only without organic binders
15 01 07	Glass packaging	
17 01 01	Concrete	Selected C&D waste only ^(a)
17 01 02	Bricks	Selected C&D waste only ^(a)
17 01 03	Tiles and ceramics	Selected C&D waste only ^(a)
17 01 07	Mixtures of concrete, bricks, tiles and ceramics	Selected C&D waste only ^(a)
17 02 02	Glass	
17 05 04	Soil and stones	Excluding topsoil, peat; excluding soil and stones from contaminated sites
19 12 05	Glass	
20 01 02	Glass	Separately collected glass only
20 02 02	Soil and stones	Only from garden and parks waste; Excluding top soil, peat

- (a) Selected construction and demolition waste (C & D waste): with low contents of other types of materials (like metals, plastic, organics, wood, rubber, etc). The origin of the waste must be known.

No C & D waste from constructions, polluted with inorganic or organic dangerous substances, e.g. because of production processes in the construction, soil pollution, storage and usage of pesticides or other dangerous substances, etc., unless it is made clear that the demolished construction was not significantly polluted.

No C & D waste from constructions, treated, covered or painted with materials, containing dangerous substances in significant amounts.

Schedule 4 – Emissions and monitoring

Table S4.1 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Groundwater monitoring borehole GW1 shown on drawing No DESID11 and proposed combined gas and groundwater monitoring borehole PMP3 shown on drawing ESID8.	Ammoniacal Nitrogen Chloride Nickle Cadmium Mercury	To be agreed in accordance with S1.3 (7a and 7b)	Spot Sample	Monthly for twelve months then quarterly	In accordance with Environment Agency Guidance LFTGN02 Monitoring Landfill Leachate, Groundwater and Surface Water.

Table S4.2 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (% v/v)	Monitoring frequency	Monitoring standard or method
Proposed perimeter combined Landfill Gas and Groundwater Monitoring Boreholes PMP1, PMP2 and PMP3 shown on drawing reference DESID8.	Methane	1.0 ¹	Monthly	Monitoring to be carried out in accordance with Environment Agency Document 'Guidance on the Management of Landfill Gas' LFTGN03 unless otherwise agreed in writing with the Agency.
	Carbon Dioxide	1.5 ¹		
	Oxygen	No limit		
	Atmospheric pressure			
	Differential Pressure			
Temperature				
Meteorological data				

¹ – above background concentrations which are to be agreed in accordance with Table S1.3 (2).

Table S4.3 Landfill gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method
Proposed in-waste Landfill Gas Monitoring Boreholes IMP9 and IMP10 shown on drawing reference DESID8.	Methane Carbon Dioxide Oxygen Atmospheric pressure Differential pressure Temperature Meteorological Data	Monthly	Monitoring to be carried out in accordance with Environment Agency Document 'Guidance on the Management of Landfill Gas' LFTGN03 unless otherwise agreed in writing with the Agency.

Table S4.4 Surface water – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
SW1, SW2 and SW3 shown on Drawing No DESID11.	Temperature Dissolved Oxygen pH Electrical Conductivity Ammoniacal Nitrogen COD Chloride Nickle	Quarterly	Monitoring to be carried out in accordance with Environment Agency Document 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water' LFTGN02 unless otherwise agreed in writing with the Agency.	

Table S4.5 Groundwater – other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Groundwater monitoring boreholes GW1 and GW2 shown on drawing No DESID11 and proposed combined gas and groundwater monitoring boreholes PMP1, 2 and 3 shown on drawing ESID8.	Water level, Dissolved Oxygen pH, Electrical Conductivity Temperature, TON(oxidised-N) TOC (filtered) COD Calcium Magnesium Sodium Potassium Alkalinity Sulphate Iron Manganese Cromium Copper Lead Zinc	Quarterly	In accordance with Environment Agency Guidance LFTGN02 Monitoring Landfill Leachate, Groundwater and Surface Water.	None
	List I	Annually		

Table S4.6 Particulate matter in ambient air - limits and monitoring requirements					
Monitoring Point Ref. /Description	Parameter	Limit (Including Unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
To be agreed in accordance with Table S1.3 (5a and 5b).					

Schedule 5 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S5.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Groundwater (Table S4.1 & S4.5) Parameters as required by condition 3.6.1	GW1, GW2, PMP1, PMP2 and PMP3	Quarterly	Existing boreholes - 27/03/2007 Proposed boreholes - subject to Table S1.3(1)
Particulate matter (Table S4.6) Parameters as required by condition 3.6.1	To be agreed in accordance with Table S1.3 (5a and 5b).	To be agreed in accordance with Table S1.3 (5a and 5b).	To be agreed in accordance with Table S1.3 (5a and 5b).
Landfill gas lateral migration (Table S4.2) Parameters as required by condition 3.6.1	PMP1, PMP2 and PMP3	Quarterly	When boreholes have been installed in accordance with S1.3(1)
Other Landfill gas monitoring (Table S4.3) Parameters as required by condition 3.6.1	IMP9 and IMP10	Quarterly	When boreholes have been installed in accordance with S1.3 (3)
Other surface water monitoring (Table S4.4) Parameters as required by condition 3.6.1	SW1, SW2 and SW3	Quarterly	27/03/2007

Table S5.2: Annual production/treatment	
Surface water and/ or groundwater: Disposed of off site; Disposed of to any onsite effluent treatment plant.	Cubic metres/year

Table S5.3 Reporting forms		
Media/parameter	Reporting Format	Date of Form
Controlled water	Form water 1 or other reporting format to be agreed in writing with the Agency	
Groundwater	Form groundwater 1 or other reporting format to be agreed in writing with the Agency	
Landfill gas	Form Gas 1 or other reporting format to be agreed in writing with the Agency	
Waste Return	Waste Return Form RATS2E	
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with the Agency	
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Agency	

Schedule 6 - Notification

This page outlines the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the PPC Regulations.

Part A

Permit Number	
Name of operator	
Location of Installation	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution

To be notified within 24 hours of detection	
Date and Time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B to be supplied as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of H Evason & Co

Schedule 7 - Interpretation

"*Accident*" means an accident that may result in pollution.

"*Annually*" means once every Year.

"*Application*" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under schedule 4 to the PPC Regulations

"*Authorised Officer*" means any person authorised by the Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in Section 108(4) of that Act.

"*Background concentration*" means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site; or
- For emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site

"*Construction Proposals*" means written information, at a level of detail appropriate to the complexity and pollution risk, on the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the new cell or Landfill Infrastructure.

"*CQA Validation Report*" means the final "as built" construction and engineering details of the new cell or of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

- The results of all testing required by the CQA programme - this must include the records of any failed tests with a written explanation, details of the remedial action taken, referenced to the appropriate secondary testing;
- Plans showing the location of all tests;
- "As-built" plans and sections of the works;
- Copies of the site engineer's daily records;
- Records of any problems or non-compliances and the solution applied;
- Any other site specific information considered relevant to proving the integrity of the new cell or Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the construction proposals.

"*Fugitive emission*" means an emission to air, water or land from the Activities which is not controlled by an emission or background concentration limit.

"*Groundwater Regulations*" means the Groundwater Regulations SI 1998 No. 2746, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"*Landfill Infrastructure*" means any specified element of the:

- permanent capping;
- temporary capping (i.e. engineered temporary caps not cover materials);
- leachate abstraction systems;
- leachate transfer, treatment and storage systems;
- surface water drainage systems;
- leachate monitoring wells;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;
- landfill gas management systems;

within the Site.

"*Landfill Regulations*" means the Landfill (England and Wales) Regulations SI 2002 No. 1559, and words and expressions used in this permit which are also used in the Regulations shall have the same meanings as in those Regulations.

"*Land Protection Guidance*" means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: Application site report and site protection monitoring programme".

"*Liquids*" means any liquid other than leachate within the engineered landfill containment system.

"*LFTGN 05*" means Environment Agency Guidance for monitoring enclosed landfill gas flares, September 2004.

"*LFTGN 08*" means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

"*New Cell*" means any new cell, part of a cell or other similar new area of the Site where waste deposit is to commence after issue of this permit and can comprise:

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;

- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the new cell.

"No impact" means that the change made to the construction process will not alter the agreed design criteria, specification or performance in a way that has a negative effect.

"notify without delay" or "notified without delay" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"PPC Regulations" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"Quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"Relevant person" and "relevant conviction" shall have the meanings given to them in the Environmental Protection Act 1990

"Review of the Hydrogeological Risk Assessment" means a written review of the hydrogeological risk assessment included in the Application, together with any other parts of the Application that addressed the requirements of the Groundwater Regulations. The review shall assess whether the activities of disposal or tipping for the purpose of disposal of waste authorised by the permit continue to meet the requirements of the Groundwater Regulations

"Site Protection and Monitoring Programme" means a document which meets the requirements for Site Protection and Monitoring Programmes described in the Land Protection Guidance.

"Technically competent management" and "technical competence" shall have the meanings given to them in the Environmental Protection Act 1990.

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

"Year" means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means the standards included in Environment Agency Guidance for Monitoring Enclosed Landfill Gas Flares LFTGN 05 or Guidance for Monitoring Landfill Gas Engine Emissions LFTGN 08.

END OF PERMIT