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Wales

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2016

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**Tata Steel UK Ltd**

**Shotton Works Landfill Site No 1  
Shotton Works  
Shotton  
Deeside  
CH4 2NH**

Permit number

**EPR/GP3030BE**

# Shotton Works Landfill Site No. 1

## Permit number EPR/GP3030BE

### Introductory note

#### **This introductory note does not form a part of the permit**

The main features of the permit are as follows.

Shotton Works Landfill Site No. 1 is a landraise which covers an area of approximately 8 hectares. The site is operated as an internal waste disposal facility by Tata Steel UK Ltd. The site is bound to the north by the Dee estuary salt marsh, to the south-east by a road embankment, and to the south west by the Dee channel breakwater and the River Dee channel itself. The site is built up from the level of the salt marsh, which gently undulates at about 4.5 metres AOD. The site overlies alluvium, which is classed as a minor aquifer, though groundwater quality is considered to be of poor quality due to the history of heavy industry in the area and saline intrusion from the Dee Estuary. Although the site does not lie within a groundwater Source Protection Zone, the alluvium is underlain by the Westphalian Coal Measures which is a minor aquifer and is used as a non-potable resource. There is one licensed abstraction, Eon UK Ltd, from the Dee Estuary which is approximately 2 Km from the site.

Landfill Site No. 1 is split into 4 cells: Cells 0, 1, 2 and 3/4. Cell 0 is the oldest cell and does not have an engineered basal liner. This cell was completed and capped in March/April 1999 with a 1m thick clay cap. Cell 1 is the next oldest cell and does not have an engineered basal liner. The cell has not yet been completed to restoration level; however clay capping will be used on completion of the cell.

Cell 2 has an engineered basal liner of 1m of clay to achieve a maximum permeability of  $1 \times 10^{-9}$  m/s on the base and side slopes. Cell 3/4 has been formed by the removal of the separating bund between Cells 3 and 4. Only half of this cell, previously referred to as Cell 3, has an engineered basal liner of 1 m of clay to achieve a maximum permeability of  $1 \times 10^{-9}$  m/s on the base and side slopes. The remaining half of the cell, previously referred to as Cell 4, is not currently lined.

Records of waste types deposited at the site have been kept since October 1996. Prior to this date, the exact composition of the waste deposited is unknown, however it is anticipated that Cells 0 and 1 contain mainly inert waste with a small amount of putrescible waste. Records are available for the waste types deposited within Cell 2, which consist of filtercake from the effluent treatment plant, refractories, empty paint containers, empty plastic drums, waste lime, green waste, construction waste, timber and canteen waste.

The original site was designed to dilute and disperse, therefore the absence of any engineered basal liners within Cells 0 and 1 prevents the containment and collection of leachate. As Cell 2 is clay lined, leachate is collected and pumped to the works effluent treatment plant, authorised under Permit Number EPR/BR7321IK, where it will be treated prior to being discharged under consent to the River Dee. Leachate within Cell 3/4 will also be collected and pumped to the works effluent treatment plant.

There are dedicated peripheral landfill gas monitoring points. Historically, six leachate chimneys have been used to monitor the concentrations of landfill gas within the waste mass.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application GP3030BE	Received 05/11/04	
Response to request for information	Request dated 05/04/05	Response dated 26/04/05
Response to request for information	Request dated 10/05/05	Response dated 30/06/05 and 11/07/05
Request to extend determination	Request dated 23/05/05	Request accepted 25/05/05
Response to request for information	Request dated 16/08/05	Response dated 09/09/05 and 30/09/05
Request to extend determination	Request dated 06/01/06	Request accepted 09/01/06
Response to request for information	Request dated 06/03/06	Response dated 23/03/06
Response to request for information	Request dated 24/03/06	Response dated 27/03/06
Permit determined	31/03/06	
Application EPR/GP3030BE/V002	Application EPR/GP3030BE/V002	Application EPR/GP3030BE/V002
Variation determined EPR/GP3030BE	12/11/14	Varied permit issued.
NRW Initiated Variation	30/11/2016	Variation issued to update financial provision agreement

Application PAN-023071 (EPR/GP3030BE/V004)	Duly made 22/08/2023	Application to change the thresholds for compliance for a number of groundwater monitoring and landfill gas monitoring points.
Additional information requested	09/02/2024	Request for confirmation that representative samples have been taken throughout the reference monitoring period (May 2018 to March 2023).
Additional information received	13/02/2024	Confirmation that representative samples have been taken.
Variation determined EPR/GP3030BE	21/02/2025	Variation issued to Tata Steel UK Ltd

#### **Other Part A installation permits relating to this installation**

<b>Operator</b>	<b>Permit number</b>	<b>Date of issue</b>
Tata Steel UK Ltd	EPR/BR7321IK	12/03/04

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number  
**EPR/GP3030BE**

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016

**Tata Steel UK Ltd** (“the operator”),  
whose registered office is

**18 Grosvenor Place  
London  
England  
SW1X 7HS**

company registration number **02280000**

to operate a regulated facility at

**Shotton Works Landfill Site No 1  
Shotton Works  
Shotton  
Deeside  
Flintshire  
CH5 2NH**

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

Signed	Date
<b>Holly Noble</b>	<b>21/02/2025</b>

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 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.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

### 1.2 Finance

- 1.2.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and Natural Resources Wales dated 28 February 2023 shall be maintained by the Operator throughout the subsistence of this permit and the operator shall produce evidence of such provision whenever required by Natural Resources Wales.
- 1.2.2 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 1.2.1; and
  - (c) the estimated costs for the closure and aftercare of the landfill.

### 1.3 Energy efficiency

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
  - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
  - (c) implement any appropriate measures identified by a review.

### 1.4 Efficient use of raw materials

- 1.4.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
  - (b) maintain records of raw materials and water used in the activities;
  - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
  - (d) take any further appropriate measures identified by a review.

## **1.5 Avoidance, recovery and disposal of wastes produced by the activities**

1.5.1 The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every four years whether changes to those measures should be made; and take any further appropriate measures identified by a review.
- (c) take any further appropriate measures identified by a review.

## **2 Operations**

### **2.1 Permitted activities**

2.1.1 The operator is only 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 green on the site plan at schedule 7 to this permit.

### **2.3 Operating techniques**

- 2.3.1 (a) 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 Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

2.3.2 The operator shall not use leachate for the purpose of dust suppression.

### **2.4 Improvement programme**

2.4.1 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 Natural Resources Wales.

2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

### **2.5 Pre-operational conditions**

2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

## 2.4 Landfill Engineering

- 2.4.1 No construction of any new cell of the landfill shall commence until the operator has submitted construction proposals and Natural Resources Wales has confirmed that it is satisfied with the construction proposals.
- 2.4.2 Where the operator proposes to construct any new cell other than the first cell, but proposes no change from the design of the most recently approved cell which could have any impact on the performance of any element of the design, no construction of the new cell shall commence until the operator has submitted a cell layout drawing and Natural Resources Wales has confirmed that it is satisfied with the cell layout drawing.
- 2.4.3 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 Natural Resources Wales.
- 2.4.4 No disposal of waste shall take place in a new cell until the operator has submitted a CQA Validation Report and Natural Resources Wales has confirmed that it is satisfied with the CQA Validation Report.
- 2.4.5 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 Natural Resources Wales has confirmed that it is satisfied with the construction proposals.
- 2.4.6 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 Natural Resources Wales.
- 2.4.7 The operator shall submit a CQA Validation Report within four weeks of the completion of the construction of the relevant landfill infrastructure, or other time period agreed in writing with Natural Resources Wales.
- 2.4.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.4.5 and 2.4.6 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to Natural Resources Wales as soon as practicable.
- 2.4.9 For the purposes of conditions 2.4.1, 2.4.2, 2.4.4 and 2.4.5, Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four 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.
- 2.4.10 Where Natural Resources Wales has required further information under condition 2.4.9(a), Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
- a) confirmed whether or not it is satisfied; or
  - b) informed the operator that it requires further information.

## 2.5 Waste acceptance

- 2.5.1 Wastes shall only be accepted for disposal if:
- (a) they are listed in schedule 2, table S2.1;
  - (b) they are non-hazardous waste; and

- (c) they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm); and
  - (d) they are not shredded used tyres; and
  - (e) they are not chemical substances from research and development or teaching activities, for example laboratory residues, which are unidentified and/or which are new and whose effects on man and/or the environment are unknown; and
  - (f) all the relevant waste acceptance procedures have been completed; and
  - (g) they fulfil the relevant waste acceptance criteria; and
  - (h) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria; and
  - (i) they are wastes which have been treated, except for wastes which treatment is not technically feasible; and
  - (j) they are wastes with a code beginning with 07 05 and 16 03, they shall exclude waste medicinal products and pharmaceutically active waste materials arising from their manufacture.
- 2.5.2 Wastes shall only be accepted for restoration where they are accepted in accordance with a restoration plan approved in writing by Natural Resources Wales.
- 2.5.3 The operator shall visually inspect:
- (a) without unloading it, waste that is not an enclosed container or enclosed vehicle on arrival at the landfill and waste at the point of deposit; and
  - (b) waste at the point of deposit; and
  - (c) waste at the point of dispatch; and
  - (d) be satisfied that the waste conforms to the requirements of condition 2.5.1
- and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.
- 2.5.4 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.
- 2.5.5 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.5.6 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing WR7816/12/04 dated 02/11/2021 (revised 10/07/2023).
- 2.5.7 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.5.
- 2.5.8 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 municipal waste and 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.

## **2.6 Leachate levels**

- 2.6.1 The limits for the level of leachate listed in schedule 3 table S3.1 shall not be exceeded.

## **2.7 Closure and aftercare**

- 2.7.1 The operator shall maintain a closure and aftercare management plan.

## **2.8 Landfill gas management**

- 2.8.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
- (a) collect landfill gas; and
  - (b) control the migration of landfill gas.

- 2.8.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall use appropriate measures to flare or treat the gas in accordance with an approved landfill gas management plan.
- 2.8.3 The operator shall:
- (a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a revised landfill gas management plan;
  - (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

## **3 Emissions and monitoring**

### **3.1 Emissions to water, air or land**

- 3.1.1 The limits in Schedule 3 shall not be exceeded.
- 3.1.2 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2, S3.3, S3.4, S3.5 and S3.6.
- 3.1.3 The limits given in Table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.4 The operator shall prevent the input of any hazardous substances from the activities into groundwater.
- 3.1.5 The operator shall submit to Natural Resources Wales a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the fourth anniversary of the granting of the permit, and
  - (b) between nine and six months prior to every subsequent six years after the fourth anniversary of the granting of the permit.

### **3.2 Emissions of substances not controlled by emission limits**

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

### **3.3 Odour**

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

### **3.4 Noise and vibration**

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

### **3.5 Monitoring**

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
- (a) Leachate specified in tables S3.1 and S3.6;
  - (b) Groundwater specified in tables S3.2;
  - (c) Landfill gas specified in tables S3.3, S3.4 and S3.5.
- 3.5.2 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.
- 3.5.3 A topographical survey of the site referenced to ordnance datum shall be carried out and shall be used to produce a plan of a scale adequate to show the surveyed features of the site:
- (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.

## **3.6 Pests**

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution hazard or annoyance from pests;
  - (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

# **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 Natural Resources Wales, 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 monitoring; and
    - (ii) sub-surface landfill gas monitoring; and
    - (iii) leachate levels, quality and quantities; and
    - (iv) landfill gas generation and collection;
    - (v) landfill gas monitoring; and
    - (vi) waste types and quantities;
    - (vii) the specification and as built drawings of the basal, sidewall and capping engineering systems.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

## 4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 A report or reports on the performance of the activities over the previous year ('the annual report') shall be submitted to Natural Resources Wales by 31st January each year or such other date as may be agreed in writing by Natural Resources Wales, with the exception of 4.2.2(c) that must be provided by the end of February 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 in relation to this installation and any agreed amendments thereto. The review will include written descriptions of the improvements made to operational performance during the year, action plans developed and planned improvements for the coming year;
- (b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
- (c) the annual production/treatment set out in schedule 4 table S4.2;
- (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
- (e) 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;
- (f) an assessment of the settlement behaviour 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;
- (g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
- (h) a plan(s) ('the monitoring and extraction point plan – MEPP') showing the locations of existing and any new leachate and landfill gas extraction and monitoring points.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, 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 4 table S4.1;
- (b) using the forms specified in schedule 4 table S4.4 or other reporting format as agreed in writing with Natural Resources Wales; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 Within one month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, within six 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.

## 4.3 Notifications

4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

- (i) inform Natural Resources Wales,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
  - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
  - (b) any steps taken with a view to the dissolution of the operator.
- 4.3.4 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.

## 4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

# Schedule 1 – Operations

**Table S1.1 activities**

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations (where applicable)	Limits of specified activity
A1	Section 5.2 Part A(1) (a) , The disposal of waste in a landfill.	Landfill non-hazardous waste and landfill restoration D5 –Specially engineered landfill and R10 – Land treatment resulting in benefit to agriculture or ecology	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.7, as an integral part of landfilling.

**Directly Associated Activities**

A2	Leachate management.	Collection, storage and transfer of leachate via pipeline prior to discharge to Effluent Treatment Works	Leachate arising from the landfill site. Effluent treatment works are controlled under permit BR73211K.
A3	Surface water management.	Control and management of site drainage from the landfill site	From surface water management system to point of entry to controlled waters.
A4	Landfill gas management	Control and management of landfill gas from the landfill site.	Collection and control of Landfill gas arising from the landfill site.

**Table S1.2 Operating techniques**

Description	Parts	Date Received
Application	<p>The response to questions 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.8, 2.9, 2.11 and 3.1 in part B of the Application Form. Responses to schedule 4 notices and letters dated 26<sup>th</sup> April 2005, 30<sup>th</sup> June 2005, 11<sup>th</sup> July 2005, 9<sup>th</sup> September 2005, 30<sup>th</sup> September 2005, 23<sup>rd</sup> March 2006, 27<sup>th</sup> March 2006 and 31<sup>st</sup> March 2006.</p> <p>Excluding response to:</p> <ul style="list-style-type: none"> <li>• B1.4.1 section 3 on requisite surveillance;</li> <li>• B1.4.1 section 3 leachate control and trigger levels;</li> <li>• B1.4.3 section 3.3.3 on quarterly monitoring 3.3.4 compliance levels;</li> <li>• B2.1.2 – 15 01 04 and 20 10 40 waste types;</li> </ul>	05/11/04

**Table S1.2 Operating techniques**

Description	Parts	Date Received
	<ul style="list-style-type: none"> <li>B2.2.42 spacing of groundwater boreholes;</li> <li>Schedule 4 responses of 30<sup>th</sup> May 2005 and 9<sup>th</sup> September 2005 answers on stability of waste slopes; and</li> <li>Response 23<sup>rd</sup> March 2006 comments on Hydrogeological Risk Assessment.</li> </ul>	
Application PAN-023071	Section 5.2.2 Methane Action Plan and Section 5.4 Carbon Dioxide Action Plan of report Derivation of New Perimeter Gas Emission Criteria (ref. 2349r1v1d0523)	22/08/23

**Table S1.3 Improvement programme requirements**

Reference	Requirement	Date
IC1	The Operator shall submit to Natural Resources Wales, for its agreement in writing, an assessment of the suitability of existing in-waste and perimeter boreholes to be used for the purpose of monitoring landfill gas concentrations. This assessment should be completed in accordance with the requirements of the Environment Agency's document, "Guidance on the Management of Landfill Gas" (LFTGN03), dated September 2004. Where, following the completion of this suitability assessment, boreholes are found to be not fit for purpose, the Operator shall provide to Natural Resources Wales for agreement in writing, a plan for the replacement, installation and commissioning of boreholes in accordance with "Guidance on the Management of Landfill Gas" (LFTGN03), dated September 2004.	21/08/25
IC2	The Operator shall submit to Natural Resources Wales, for its agreement in writing, a revised Landfill Gas Management Plan, which will include a review of the perimeter gas monitoring data. The review shall include refined control and trigger levels, based upon 6 monthly monitoring results, for gas monitoring in accordance with the Environment Agency's document, "Guidance on the Management of Landfill Gas" (LFTGN03), dated September 2004. The Operator shall undertake any measures or recommendations approved in writing by Natural Resources Wales within the timescales indicated in the approval.	21/08/25
IC3	The Operator shall submit to Natural Resources Wales, for its agreement in writing, a suitable Surface Water Inspection Programme for the site. This programme should be completed in accordance with the requirements of the Environment Agency's document, "Guidance on monitoring of landfill leachate, groundwater and surface water" (LFTGN02) dated June 2014.	21/08/25
IC4	The Operator shall implement the Surface Water Inspection Programme described in Condition 2.4.1 IC3.	21/08/25

**Table S1.4 Pre-operational measures for future development**

<b>Reference</b>	<b>Operation</b>	<b>Pre-operational Measures</b>
1	Landfill engineering.	Install engineered basal liner and side slopes to Landfill Regulations 2002 standards within the Cell 4, part of Cell 3/4, prior to the deposit of any waste.

**Table S1.5 Annual waste input limits**

<b>Category</b>	<b>Limit Tonnes/ Year</b>
Non-hazardous waste	50,000
Inert waste	20,000
Total	70,000

## Schedule 2 – List of permitted wastes

<b>Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste</b>	
<b>Waste code</b>	<b>Description</b>
<b>02</b>	<b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 03	plant-tissue waste
<b>11</b>	<b>Wastes from chemical surface treatment and coating of metals and other materials; non-ferrous hydro-metallurgy</b>
<b>11 01</b>	<b>wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)</b>
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
<b>12</b>	<b>Wastes from shaping and physical and mechanical surface treatment of metals and plastics</b>
<b>12 01</b>	<b>wastes from shaping and physical and mechanical surface treatment of metals and plastics</b>
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
<b>15</b>	<b>Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 02	plastic packaging
15 01 03	wooden packaging
<b>16</b>	<b>Wastes not otherwise specified in the list</b>
<b>16 11</b>	<b>waste linings and refractories</b>
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
<b>17</b>	<b>Construction and demolition wastes (including excavated soil from contaminated sites)</b>
<b>17 01</b>	<b>concrete, bricks, tiles and ceramics</b>
17 01 01	concrete
<b>17 05</b>	<b>soil (including excavated soil from contaminated sites), stones and dredging spoil</b>
17 05 04	soil and stones other than those mentioned in 17 05 03
<b>17 09</b>	<b>other construction and demolition wastes</b>
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
<b>19</b>	<b>Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use</b>
<b>19 13</b>	<b>wastes from soil and groundwater remediation</b>
19 13 06	sludges from groundwater remediation other than those mentioned in 19 13 05
<b>20</b>	<b>Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions</b>

**Table S2.1 Permitted waste types for disposal at a landfill for non-hazardous waste**

<b>Waste code</b>	<b>Description</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard
20 01 02	glass
20 01 11	textiles
20 01 25	edible oil and fat
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
<b>20 03</b>	<b>other municipal wastes</b>
20 03 01	mixed municipal waste
20 03 03	street-cleaning residues

## Schedule 3 – Emissions and monitoring

**Table S3.1 Leachate level limits and monitoring requirements**

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring standard and method
<b>Operational Cells or Phases</b> (Any cells or phases that do not have a final engineered cap agreed in accordance with the landfill engineering condition 2.4)			
All boreholes and wells in operational cells	1 m above cell base	Quarterly	As specified in Environment Agency Guidance TGN02 (February 2003) or such other subsequent guidance as may be agreed in writing with Natural Resources Wales. Or as otherwise agreed with Natural Resources Wales as part of a leachate monitoring plan.
<b>Non Operational Cells or Phases</b> (Any cells or phases that have a final engineered cap agreed in accordance with the landfill engineering condition 2.4)			

**Table S3.2 Groundwater – emission limits and monitoring requirements**

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
BH1, BH2, BH11, BH12 and BH13	Ammoniacal Nitrogen	224 mg/l	Spot Sample <sup>1</sup>	Quarterly	As per Application Appendix 1 Section 2.5 and as specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <a href="#">risk assessments for your environmental permit (www.gov.uk)</a> or such other subsequent guidance as may be agreed in writing with Natural Resources Wales
	Nickel	1.75 mg/l			
	Zinc	3.42 mg/l			
BH1, BH2, BH8, BH9, BH10, BH11, BH12, BH13, BH14 and BH15	Water level, pH, Electrical conductivity, Chloride, Ammoniacal nitrogen, BOD, COD, Total alkalinity, Sulphate, TON, TOC, Arsenic, Chromium, Copper, Iron, Lead, Zinc, Nickel, Cadmium, Phosphate, Selenium, Phenols	None	Spot sample <sup>1</sup>	Quarterly	
BH1, BH2, BH8, BH9, BH10, BH11, BH12, BH13, BH14 and BH15	Monitoring point base, List 1 hazardous substances	None	Spot sample <sup>1</sup>	Annually	

1. Where any groundwater assessment limit is exceeded the operator shall instigate their groundwater action plan.

**Table S3.3 Landfill gas in external monitoring boreholes – limits and monitoring requirements**

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
BH1, BH2, BH8, BH9 and BH10	Methane	1 %v/v <sup>1,2</sup>	Quarterly	As per LFTGN 03 (v1 2004) or such other subsequent guidance as may be agreed in writing with Natural Resources Wales and BS 8485
	Carbon Dioxide	No limit <sup>3</sup>		
	Oxygen	No limit		As per LFTGN 03 (v1 2004) or such other subsequent guidance as may be agreed in writing with Natural Resources Wales
	Hydrogen sulphide	No limit		
	Carbon monoxide	No limit		

**Table S3.3 Landfill gas in external monitoring boreholes – limits and monitoring requirements**

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
	Atmospheric pressure	No limit		
	Differential Pressure	No limit		
	Temperature	No limit		
	Meteorological data	No limit		Record whether the ground is: waterlogged frozen snow covered

1. Only applicable if gas flux is >0.7 l/h. Gas flux (l/h) is equal to the gas concentration (% v/v) divided by 100 multiplied by gas flow (l/h)
2. Where the gas flux is calculated as >0.7 l/h the operator shall instigate their Methane Action Plan
3. Where the concentration of carbon dioxide is measured as > 5% v/v the operator shall instigate their Carbon Dioxide Action Plan

**Table S3.4 Landfill gas – other monitoring requirements**

Monitoring Point Ref. /Description	Parameter	Limits (including units)	Monitoring frequency	Monitoring standard or method
In-waste monitoring boreholes C0, C1 and C2	Methane	No limit	Quarterly	As per LFTGN 03 (v1 2004) or such other subsequent guidance as may be agreed in writing with Natural Resources Wales
	Carbon Dioxide	No limit		
	Oxygen	No limit		
	Hydrogen sulphide	No limit		
	Carbon Monoxide	No limit		
	Atmospheric pressure	No limit		
	Differential pressure	No limit		
	Temperature	No limit		

**Table S3.4 Landfill gas – other monitoring requirements**

Monitoring Point Ref. /Description	Parameter	Limits (including units)	Monitoring frequency	Monitoring standard or method
	Meteorological data	No limit		Record whether the ground is: waterlogged frozen snow covered
BH11, BH12, BH13 and BH14	Methane	No limit	Quarterly	As per LFTGN 03 (v1 2004) or such other subsequent guidance as may be agreed in writing with Natural Resources Wales
	Carbon Dioxide	No limit		
	Oxygen	No limit		
	Hydrogen sulphide	No limit		
	Carbon monoxide	No limit		
	Atmospheric pressure	No limit		
	Differential Pressure	No limit		
	Temperature	No limit		
	Meteorological data	No limit		Record whether the ground is: waterlogged frozen snow covered

**Table S3.5 Landfill gas emissions from capped surfaces for cells that have accepted non hazardous biodegradable waste – monitoring requirements**

Monitoring point Ref. /description	Parameter	Limit (inc. unit)	Monitoring frequency	Monitoring Standard or method
Permanently capped zone	Average Methane flux	0.001 mg/m <sup>2</sup> /second <sup>1</sup>	Annually	As per LFTGN 07 (v2 2010) or such other subsequent guidance as may be agreed in writing with Natural Resources Wales. <sup>2</sup>
Temporarily capped zone		0.1 mg/m <sup>2</sup> /second <sup>1</sup>		

1. If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey with an FID can be used to demonstrate that the surface emissions are under control. If this survey shows no change in the pattern of

methane emission, it may be used as the annual survey. The values for flux and total methane emissions measured in the previous year may be reported and a fresh flux box survey is not necessary.

2. An alternative method of monitoring landfill gas emissions from capped area can also be agreed in writing with Natural Resources Wales. For example the operator can use methane surface concentrations surveys, although separate limits will need to be agreed (e.g. methane concentration in ppm).

**Table S3.6 Leachate – other monitoring requirements**

Monitoring point reference or description	Parameter	Monitoring frequency <sup>1</sup>	Monitoring standard or method	Other specifications
<b>Operational Cells or Phases</b> (Any cell or phases that do not have a final engineered cap agreed in accordance with condition 2.6)			At leachate compliance point as listed in table S3.1.	
Cells 0, 1, 2 and 3/4 leachate monitoring points	pH, Electrical conductivity, Chloride, Ammoniacal Nitrogen, Alkalinity, BOD, COD, Total alkalinity, Sulphates, TOC, TON, Arsenic, Chromium, Copper, Iron, Lead, Zinc, Nickel, Cadmium, Phosphate, Selenium, Phenols	Six-monthly	As specified in Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003), <a href="#">risk assessments for your environmental permit (www.gov.uk)</a> or such other subsequent guidance as may be agreed in writing with Natural Resources Wales	None
Cells 0, 1, 2 and 3/4 leachate monitoring points	List 1 hazardous substances <sup>2</sup> , Depth to base of monitoring well.	Annually		None
<b>Non Operational Cells or Phases</b> (Any cell or phases that have a final engineered cap agreed in accordance with condition 2.6)				

1. Initial characterisation frequency. After 4 quarterly samples have been taken frequencies for all parameters may be reduced to annually.
2. Screen in accordance with Appendix 6 of Environment Agency Document LFTGN 01 – Hydrogeological Risk Assessments for Landfills.

## Schedule 4 – Reporting

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

**Table S4.1 Reporting of monitoring data**

<b>Parameter</b>	<b>Reporting period</b>	<b>Period ends</b>
Leachate level and monitoring As specified by schedule 3, table S3.1	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission to groundwater As specified by schedule 3, table S3.2	Every 3 months <sup>1</sup>	31 March, 30 June, 30 September, 31 December
Landfill gas in external monitoring boreholes As specified by schedule 3, table S3.3	Every 3 months	31 March, 30 June, 30 September, 31 December
Landfill gas – other monitoring requirements As specified by schedule 3, table S3.4	Every 3 months	31 March, 30 June, 30 September, 31 December
Emission of landfill gas from capped surfaces As specified by schedule 3, table S3.5	Every 12 months	31 December
Other leachate monitoring As specified by schedule 3, table S3.6	Every 6 months <sup>2</sup>	31 December

1. Annually for Monitoring point base and List 1 hazardous substances.
2. Annually for List 1 hazardous substances and depth to base of monitoring well.

**Table S4.2: Annual production/treatment**

Leachate:	Cubic metres/year
Disposed of off site;	
Disposed of to any onsite effluent treatment plant;	
Recirculated into the waste mass.	
Surface water and/or groundwater:	Cubic metres/year
Disposed of off site;	
Disposed of to any onsite effluent treatment plant	
Landfill gas:	Normalised cubic metres/year
combustion in flares;	
combustion in gas engines;	
Other methods of gas utilisation.	

**Table S4.3 Performance Parameters**

Parameter	Frequency of assessment	Annual total	Unit
Energy used (including for leachate treatment)	Annually		MWh of electricity or natural gas
Potable water use	Annually		Cubic metres
Non potable water use	Annually		Cubic metres

**Table S4.4 Reporting Forms**

<b>Media/parameter</b>	<b>Reporting Format</b>	<b>Date of Form</b>
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with Natural Resources Wales	DD/MM/YY
Surface water	Form Surface Water 1 or other reporting format to be agreed in writing with Natural Resources Wales	DD/MM/YY
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with Natural Resources Wales	DD/MM/YY
Waste Return	E-waste Return Form	-

## Schedule 5 – 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 EP Regulations.

### 2.9 Part A

<b>Permit Number</b>	
<b>Name of operator</b>	
<b>Location of Facility</b>	
<b>Time and date of the detection</b>	

<b>(a) Notification requirements for any incident or accident which significantly affects or may significantly affect the environment</b>	
<b>To be notified within 24 hours of detection</b>	
<b>Date and Time of the event</b>	
<b>Reference or description of the location of the event</b>	
<b>Description of where any release into the environment took place</b>	
<b>Substances(s) potentially released</b>	
<b>Best estimate of the quantity or rate of release of substances</b>	
<b>Measures taken, or intended to be taken, to stop any emission</b>	
<b>Description of the failure or accident.</b>	

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

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) Notification requirements in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment</b>	
<b>To be notified within 24 hours of detection</b>	
<b>Description of where the effect on the environment was detected</b>	
<b>Substances(s) detected</b>	
<b>Concentrations of substances detected</b>	
<b>Date of monitoring/sampling</b>	

## 2.10 Part B to be supplied as soon as practicable

<b>Any more accurate information on the matters for notification under Part A.</b>	
<b>Measures taken, or intended to be taken, to prevent a recurrence of the incident</b>	
<b>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</b>	
<b>The dates of any unauthorised emissions from the facility in the preceding 24 months.</b>	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

## Schedule 6 – 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 5 to the EP Regulations.

“authorised officer” means any person authorised by Natural Resources Wales 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; or
- For emissions of landfill gas, the ground or air outside the site and not attributable to the site.

“Cell layout drawing” means: A drawing or drawings of the proposed new cell that illustrate(s) in sufficient detail:

- (i) the location of the new cell on the site;
- (ii) the proposed level (Above Ordnance Datum) of the base of the excavation;
- (iii) the proposed finished levels of all containment and leachate drainage layers;
- (iv) the positions of leachate management infrastructure; and
- (v) the positions of landfill gas infrastructure (if appropriate).

(a) A detailed written explanation of any minor design changes from the most recently approved cell that result from the new cell layout. This would include, for example:

- (i) changes to slope length and gradient within the cell;
- (ii) new leachate or landfill gas infrastructure construction design;
- (iii) slope stability issues such as new basal excavation level; and/or
- (iv) depth of waste.

“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.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675. Words and expressions used in this permit which are also used in those Regulations have the same meanings as in those Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

“exceeded” means that a value is above a permitted limit, or where a range of values or a minimum value is set as a permitted limit it means a value outside that range or below the minimum value, whichever is applicable.

“Hazardous substances” as defined by the Environmental Permitting (England and Wales) Regulations 2010, SI 2010 No.675, schedule 22 and listed in our Hydrogeological risk assessment guidance, annex J to our H1 risk assessment guidance.

“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;
- lining within the installation.

within the site.

“Liquids” means any liquid other than leachate within the engineered landfill containment system.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“LFTGN 05” means Environment Agency Guidance for monitoring enclosed landfill gas flares.

“LFTGN 07” means Environment Agency Guidance on monitoring landfill gas surface emissions.

“LFTGN 08” means Environment Agency Guidance for monitoring landfill gas engines.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“inert waste” means waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.

“Medicinal product” means any medicine licensed by the Medicines and Healthcare products Regulatory Agency (MHRA) or their predecessors under the Medicines Act 1968, section 130.

“M2” means Environment Agency Guidance Monitoring of stack emissions to air.

“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.

“MEPP” Monitoring and extraction point plan, required by condition 4.2.2(h) to specify extraction points and routine monitoring locations.

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

“Pests” means Birds, Vermin and Insects.

“Previous year” means the 12 month period preceding the month the annual report is submitted in.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“Relevant waste acceptance procedures” means the procedure for the acceptance of waste at landfills and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

“Relevant waste acceptance criteria” means the waste acceptance criteria and the associated sampling and test methods specified in the Council Decision Annex (2003/33/EC, European Council of 19 December 2002).

“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 EP 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 EP Regulations.

‘Sustainably extracted’ means where suction can be applied to the extraction wells such that a flow rate of landfill gas, with a methane content capable of either being combusted, or treated by bio-oxidation, can be extracted without increasing the risk of air ingress to the waste or inducing aerobic degradation within the waste.

‘Waste code’ - See ‘List of Wastes’.

“WFD” means Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste [and repealing certain Directives] – the Waste Framework Directive.

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.

Where the following terms appear in the waste code list in Tables S2.1 they have the meaning given below:

'hazardous substance' means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008;

'heavy metal' means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances;

'polychlorinated biphenyls and polychlorinated terphenyls' ('PCBs') means PCBs as defined in Article 2(a) of Council Directive 96/59/EC'.

Article 2(a) says that 'PCBs' means:

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 % by weight;

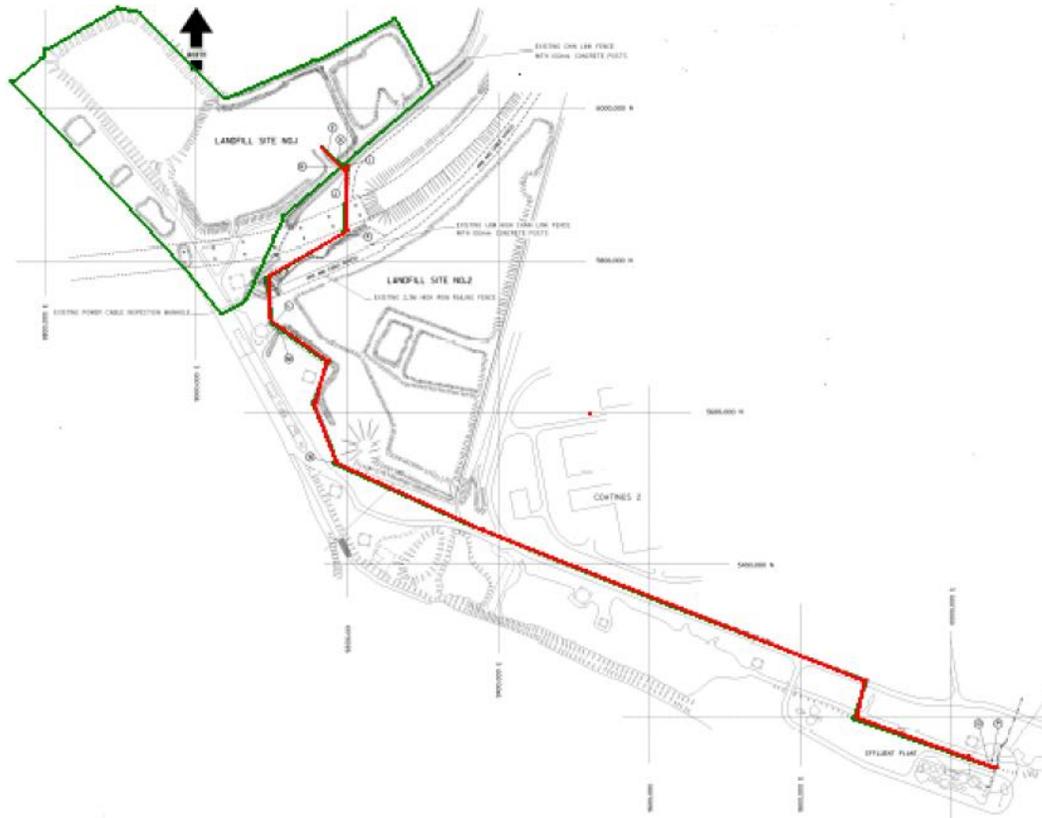
'transition metals' means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances;

'stabilisation' means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste;

'solidification' means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste;

'partly stabilised wastes' means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

# Schedule 7 – Site plan



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END OF PERMIT