

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Tata Steel UK Limited

**Morfa Hazardous Landfill
Port Talbot Installation
Port Talbot Works
Port Talbot
West Glamorgan
SA13 2NG**

Permit number

EPR/BW2692IM

Morfa Hazardous Landfill

Permit number EPR/BW2692IM

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The installation in its entirety consists of the whole steel works including the Morfa non-hazardous and Morfa hazardous landfills.

This permit is for the Morfa Hazardous Landfill and is an in-house Schedule 1 listed installation activity, which accepts waste produced exclusively by Tata Steel UK Ltd. The wastes are mainly industrial sludges or slurries arising from steel production at Port Talbot Steel Works, South Wales. The landfill is constructed in accordance with the requirements of Schedule 2 of the Landfill Regulations 2002. The permitted maximum input capacity is 75,000 tonnes per annum. The projected lifespan is expected to be around 20 years.

The western boundary comprises a series of coastal barrier dunes on the seaward edge, whilst the southern edge of the site abuts against the Kenfig River, both of which are part of an EC protected nature reserve. The eastern boundary is defined by the low-lying Margam Moors which is a registered SSSI.

| Status log of the permit | | |
|--|-------------|---|
| Description | Date | Comments |
| Application EPR/BW2692IM received | 04/12/2003 | |
| Request to extend determination | 07/04/2004 | |
| Permit determined | 17/12/2004 | |
| Variation Notice SP3633MK issued | 24/05/2007 | |
| NRW Initiated Variation request approved EPR/BW2692IM/V003 | 30/09/2013 | Variation request to add an EWC code and amend operating techniques to allow for the disposal of hazardous waste produced during a tyre fire pollution incident |
| Variation determined EPR/BW2692IM/V003 | 31/10/2013 | Variation Notice Issued |
| NRW Initiated Variation Issued EPR/BW2692IM/V004 | 30/11/2016 | Variation issued to update financial provision agreement |
| Variation Application EPR/BW2692IM/V005 Duly Made | 07/07/2021 | Application to update permit monitoring requirements and consolidate permit |
| Permit variation determined EPR/BW2692IM/V005 | 21/10/2021 | Varied permit issued |

| Other Part A installation permits relating to this installation | | |
|---|---------------|---------------|
| Operator | Permit number | Date of issue |
| Tata Steel UK Ltd (main steelworks) | BL7108IM | 31/03/2004 |
| Harsco Metals Group Limited | BP3635MR | 06/06/2003 |
| Cambrian Stone Ltd | BL5636IF | 24/12/2002 |
| Tata Steel UK Ltd (Morfa Non-Hazardous Landfill) | BV7311IE | 17/12/2004 |

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BW2692IM

This is the consolidated permit referred to in the variation and consolidation notice for application **BW2692IM-V005** authorising,

Tata Steel UK Limited (“the operator”),

whose registered office is

18 Grosvenor Place

London

SW1X 7HS

company registration number **02280000**

to operate an installation at

Morfa Hazardous Landfill

Port Talbot Installation

Port Talbot Works

Port Talbot

West Glamorgan

SA13 2NG

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

Signed

Date

| | |
|--------------------|-------------------|
| Holly Noble | 21/10/2021 |
|--------------------|-------------------|

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 30th November 2016 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 financial provision provided under condition 1.2.1 above shall thereafter be maintained by the operator throughout the subsistence of the permit and the Operator shall produce evidence of such provision whenever required by Natural Resources Wales.
- 1.2.3 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
- (c) take any further appropriate measures identified by a review.

1.6 Multiple operator installations

1.6.1 Where the operator notifies Natural Resources Wales under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

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 blue 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.

2.4 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 Landfill Engineering

- 2.5.1 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.
- 2.5.2 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.
- 2.5.3 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.
- 2.5.4 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.
- 2.5.5 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.
- 2.5.6 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.
- 2.5.7 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant landfill infrastructure.
- 2.5.8 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.5 and 2.5.6 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.
- 2.5.9 For the purposes of conditions 2.5.1, 2.5.2, 2.5.4 and 2.5.5, 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.
- 2.5.10 Where Natural Resources Wales has required further information under condition 2.5.9(b), 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.

2.6 Waste acceptance

- 2.6.1 Wastes shall only be accepted for disposal if:
 - (a) they are listed in Schedule 2, and
 - (b) they are hazardous waste, and
 - (c) they are not liquid waste (including waste waters but excluding sludge, and
 - (d) they are not waste which in the conditions of landfill is explosive, corrosive, oxidising, highly flammable or flammable, and
 - (e) they are not hospital and other clinical infectious wastes from medical or veterinary establishments, and
 - (f) 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
 - (g) all the relevant waste acceptance procedures have been completed, and
 - (h) they fulfil the relevant waste acceptance criteria, and
 - (i) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (j) they are wastes which have been treated, except for inert wastes for which treatment is not technically feasible; or it is waste other than inert waste and treatment would not reduce its quantity or the hazards which it poses to human health or the environment.
- 2.6.2 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.

2.6.3 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.

2.6.4 The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.

2.6.5 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on drawing "245 Drawing 13" dated July 2021.

2.6.6 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in Schedule 1 table S1.4.

2.6.7 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 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.

2.7 Leachate levels

2.7.1 The limits for the level of leachate listed in Schedule 3 table S3.1 shall not be exceeded.

2.8 Closure and aftercare

2.8.1 The operator shall maintain a closure and aftercare management plan.

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 except from the sources and emission points listed in Schedule 3

3.1.2 The limits given in Schedule 3 shall not be exceeded.

3.1.3 There shall be no emission from the activities into groundwater of any hazardous substances' contrary to the Environmental Permitting (England and Wales) Regulations 2016.

3.1.4 There shall be no emission from the activities into groundwater of any non-hazardous pollutants so as to cause pollution.

3.1.5 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in Schedule 3 table S3.2 shall not be exceeded.

- 3.1.6 The operator shall submit to Natural Resources Wales a review of the Hydrogeological Risk Assessment:
- (a) between nine and six months prior to the sixth anniversary of the granting of the permit, and
 - (b) between nine and six months prior to every subsequent six years after the sixth 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.
- 3.2.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 3.2.3 All liquids in containers, 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 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.
- 3.3.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

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.
- 3.4.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

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 S3.5;
 - (c) Groundwater specified in tables S3.2 and S3.7;
 - (d) Landfill gas specified in tables S3.3 and S3.4; and
 - (e) Surface water specified in table S3.6.
- 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:
- (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.

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;
 - (ii) the results of surface water monitoring;
 - (iii) sub-surface landfill gas monitoring;
 - (iv) leachate levels, quality and quantities;
 - (v) landfill gas generation and collection;
 - (vi) waste types and quantities;
 - (vii) the location of hazardous waste deposits;
 - (viii) topographical surveys; and
 - (ix) 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 shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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;
 - (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 energy consumed at the site, reported in the format set out in Schedule 4 table S4.3;
 - (d) the annual production/treatment set out in Schedule 4 table S4.2;
 - (e) details of any contamination or decontamination of the site which has occurred;
 - (f) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
 - (g) 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;
 - (h) 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;
 - (i) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey.
- 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) for the reporting periods specified in Schedule 4 table S4.1 and using the forms specified in Schedule 4 table S4.4; 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 [(a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit,] 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 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 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.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
 - (b) any change in the operator's name(s) or address(es); and
 - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.5 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.
- 4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

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 listed in Schedule 1 of the EP Regulations | Description of specified activity and WFD Annex I and II operations | Limits of specified activity |
|--|---|---|
| Section 5.2 Part A(1) (a) , The disposal of waste in a landfill. | Landfill for hazardous waste | Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in condition 2.6, as an integral part of landfilling. |

Directly Associated Activity

| | | |
|---------------------------------------|---|--|
| Leachate management | Removal of leachate to Port Talbot Steelwork's Effluent Treatment Plant | Leachate arising from the landfill |
| Water discharges to controlled waters | Discharges of site drainage from the landfill | From surface water management system to points of entry to controlled waters |

Table S1.2 Operating techniques

| Description | Parts | Date Received |
|---|--|-----------------------------|
| Application | The response to questions 1.2, 2.1, 2.2, 2.3, 2.4 and 2.5 in part B of the Application Form | 4 December 2003 |
| Response to Improvement Condition 1 of original permit | Letter from Corus (Reference PPC011) | 28 October 2005 |
| Response to Improvement Condition 2 of original permit | Control Plan for Sea Buckthorn at the Morfa Closed Landfill Port Talbot | July 2005 |
| Response to Improvement Condition 7 of original permit | Geotechnology Plan (Reference 399 Drawing B) | July 2006 |
| Response to Improvement Condition 3 and 4 of original permit | Geotechnology Report (Report Number 403.1/1/1006) | November 2006 |
| | Letter from Corus (including attachments), (ref:RAL.IPPC.77). Revised Figure 2 "Current & Proposed Monitoring Network" Revision 0, ref. 403.1/10/1006. | 22 January 2007 |
| | Geotechnology Report (Report Number 528.1/0/0307) Letter from Geotechnology (542/morfa landfill / Haz Landfill/lt1) | March 2007 27 April 2007 |
| Methodology for removal of fire waste from Non-Hazardous Landfill | Geotechnology Report (Report Number 1277r2v1d0813), Dated August 2013 (Title: "Deposition of mixed burnt tyre fluff and demolition waste at Morfa Hazardous Landfill – Methodology for removal fire wastes from Non-Hazardous Landfill") | 20 September 2013 |
| Technical Assessment for mixed burnt fluff and demolition waste | Geotechnology Report (Report Number 1277r1v2d1013), Dated October 2013 (Title: "Deposition of mixed burnt tyre fluff and demolition waste at Morfa Hazardous Landfill – Technical Assessment in support of permit variation") | 11 October 2013 |
| Annual Review of Environmental Monitoring Results | MORFA HAZARDOUS LANDFILL PORT TALBOT PERMIT BW2692IM 2017 Annual Review of Environmental Monitoring Results Report Number 1762r1v1d0218 | 03 February 2018 |
| Final Restoration Profiles | 245 - Drawing 13r1 - Capping Details and Restoration | 16 July 2021 |

Table S1.2 Operating techniques

| Description | Parts | Date Received |
|--|--|-----------------|
| Variation Application EPR/BV7311IE/V005 | The response to question 2b in part C2 of the Application Form | 07 July 2021 |
| Supporting Information | Method Statement "Disposal of hazardous waste products at Port Talbot Works" | 15 January 2021 |

Table S1.3 Improvement programme requirements

| Reference | Requirement | Date |
|-----------|--|----------|
| 1a | <p>A revised Dust and Particulates Management Plan, for the minimisation of nuisance and other negative environmental effects arising from dust and particulate matter, shall be submitted to the Environment Agency for approval.</p> <p>The revised Plan shall:</p> <ul style="list-style-type: none"> include a detailed options appraisal of available measures for achieving minimisation of nuisance from dust and particulates and other negative environmental effects; include a detailed options appraisal of applicable monitoring techniques for use as a management aid; specify the operational control measures and monitoring techniques to be implemented at the landfill including emission limit values for dust and particulates; include appropriate measures for control and monitoring of asbestos fibres including emission limit values; and include contingency plans in the event that any specified emission limit is exceeded. The revised Dust and Particulates Management Plan shall be prepared in accordance with relevant standards contained within Environment Agency guidance document: Monitoring of particulate matter in ambient air around waste facilities Technical Guidance Document (Monitoring) M17 | Complete |
| 1b | On approval, the monitoring proposals specified in the plan shall commence | Complete |
| 2a | The proposed location, of two additional Groundwater Monitoring Boreholes, shall be submitted to the Environment Agency for approval. One borehole shall be sited at a location between Borehole BH27 and BH12. Whilst the second borehole should be sited between Borehole BH26 and BH25. | Complete |
| 2b | On approval, the construction of the monitoring boreholes shall commence at the agreed locations. The Boreholes shall be designed and built in accordance with LFTGN02 Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water, unless otherwise agreed in writing with the Environment Agency. | Complete |
| 2c | On completion and commissioning of the new monitoring boreholes, they shall be included in the site's groundwater monitoring programme | Complete |

Table S1.4 Annual waste input limits

| Category | Limit Tonnes/ Year |
|-----------------|--------------------|
| Hazardous waste | 75,000 |

Schedule 2 - List of permitted wastes

Table S2.1 Permitted waste types and quantities for the Hazardous Waste Landfill

| Maximum quantity | The total quantity of waste accepted at the site shall not exceed 75,000 tonnes per year |
|------------------|--|
| Waste code | Description |
| 06 | WASTES FROM INORGANIC CHEMICAL PROCESSES |
| 06 02 | wastes from the MFSU of bases |
| 06 02 01* | Calcium Hydroxide |
| 10 | WASTES FROM THERMAL PROCESSES |
| 10 02 | Wastes from the iron and steel industry |
| 10 02 07* | Solid wastes from gas treatment containing hazardous substances |
| 10 02 11* | Wastes from cooling-water treatment containing oil |
| 11 | WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY |
| 11 01 | Wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising) |
| 11 01 09* | Sludges and filter cakes containing hazardous substances |
| 12 | WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS |
| 12 01 | Wastes from shaping and mechanical surface treatment of metals and plastics |
| 12 01 18* | Metal sludge (grinding, honing and lapping sludge) containing oil |
| 12 01 20* | Spent grinding bodies and grinding materials containing hazardous substances |
| 13 | OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) |
| 13 05 | Oil/water separator contents |
| 13 05 02* | Sludges from oil/water separators |
| 15 | WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED |
| 15 02 | Absorbents, filter materials, wiping cloths and protective clothing |
| 15 02 02* | Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances |
| 16 | WASTES NOT OTHERWISE SPECIFIED IN THE LIST |
| 16 11 | Waste linings and refractories |
| 16 11 01* | Carbon-based linings and refractories from metallurgical processes containing hazardous substances |
| 16 11 03* | Other linings and refractories from metallurgical processes containing hazardous substances |
| 16 11 05* | Linings and refractories from non-metallurgical processes containing hazardous substances |
| 17 | CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) |
| 17 05 | Soil (inc excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 03* | Soil and stones containing hazardous substances |
| 17 06 | Insulation materials & asbestos-containing construction materials |
| 17 06 01* | Insulation materials containing asbestos |
| 17 06 03* | Other insulation materials consisting of or containing hazardous substances |
| 17 06 05* | Construction materials containing asbestos |
| 17 09 | Other construction and demolition waste |

| | |
|--------------|---|
| 17 09 04 | Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 |
| 19 | WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTEWATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE |
| 19 08 | Wastes from waste water treatment plants not otherwise specified |
| 19 08 13* | Sludges containing hazardous substances from other treatment of industrial wastewater |
| 19 10 | Wastes from shredding of metal-containing wastes |
| 19 10 03* | Fluff-light fraction and dust containing hazardous substances |

Schedule 3 – Emissions and monitoring

Table S3.1 Leachate level limits and monitoring requirements

| Monitoring point reference/ Description | Limit | Monitoring frequency | Monitoring method |
|---|--|--|---|
| L17 and GA30 as shown on Drawing "2111r1v1d1220 MHL Monitoring Network December 2020" and all subsequent new leachate monitoring points installed within cells (at least one monitoring point per cell) | 1m above base of leachate monitoring point | Weekly (reducing to monthly when landfill is fully capped) | 1. Accurate to ± 0.01 m relative to Ordnance Datum. 2. Unless otherwise agreed in writing with Natural Resources Wales, monitoring methods used shall be in accordance with Environment Agency document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02) |

Table S3.2 Trigger levels for emissions into groundwater

| Monitoring point reference | Parameter | Limit (including unit) | Reference Period | Monitoring frequency |
|--|-----------|-------------------------|------------------|----------------------|
| BH12S, BH25S, BH26S, BH28S, BH29S (Shallow Aquifer) | Chloride | 250 ($\mu\text{g/l}$) | Spot Sample | Quarterly |
| as shown on as shown on Drawing "2111r1v1d1220 MHL Monitoring Network December 2020" | Arsenic | 50 ($\mu\text{g/l}$) | | |

Table S3.3 Landfill gas from capped surfaces – limits and monitoring requirements

| Monitoring point Ref./ description | Parameter | Monitoring frequency | Other specifications | Monitoring Standard or method |
|------------------------------------|---|----------------------|---|--|
| Permanently capped zone | Average methane flux and total methane emission | Annually* | Average zone emission rate of 0.001 $\text{mg/m}^2/\text{second}$ | Flame ionisation detector walkover, flux box or as otherwise agreed in writing with Natural Resources Wales. |
| Temporarily capped zone | | | Average zone emission rate of 0.1 $\text{mg/m}^2/\text{second}$ | Alternatively as per LFTGN 07 Version 2, March 2011 |

* 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. If the zone remains stable, the results of a full walkover survey may be accepted as the site report for a period of four years before a further quantitative flux box survey is required.

Table S3.4 Landfill gas – other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method |
|---|-----------------------|-------------------------------------|---|
| L17 and GA30 as shown on Drawing "2111r1v1d1220 MHL Monitoring Network December 2020" and all subsequent new monitoring points installed within cells | Methane | Quarterly during post closure phase | Unless otherwise agreed in writing with the Natural Resources Wales monitoring methods used shall be in accordance with Agency guidance document 'Guidance on the management of landfill gas' (LFTGN03) |
| | Carbon Dioxide | | |
| | Oxygen | | |
| | Hydrogen Sulphide | | |
| | Atmospheric pressure | | |
| | Differential pressure | | |
| | Meteorological Data | | |
| | Gas Flow | | |
| | Gas Volume | | |

Table S3.5 Leachate – other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method |
|--|---|----------------------|---|
| L17 as shown on Drawing "2111r1v1d1220 MHL Monitoring Network December 2020" | pH | Quarterly | Unless otherwise agreed in writing by Natural Resources Wales, monitoring methods used shall be in accordance with Environment Agency document 'Guidance on monitoring of landfill leachate, groundwater and surface water (LFTN02) |
| | Electrical Conductivity | | |
| | Ammoniacal Nitrogen | | |
| | Arsenic | | |
| | Boron | | |
| | Copper | | |
| | Vanadium | | |
| | Calcium | | |
| | Nitrate | | |
| | Nitrite | | |
| | Sodium | | |
| | Fluoride | | |
| | Potassium | | |
| | Phosphate | | |
| | Total Alkalinity | | |
| | Chloride | | |
| | Cadmium | | |
| | Molybdenum | | |
| | Selenium | | |
| | Iron | Annually | |
| | Lead | | |
| | Magnesium | | |
| | Mercury | | |
| | Organohalogens (volatile organic compounds) | | |
| | Semi-Volatile Organic Compounds | | |
| | Sulphate | | |
| | Total Chromium | | |
| | Zinc | | |

Table S3.6 Surface water – other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method |
|--|---|----------------------|---|
| SW13, SW14 and SW15 as shown on Drawing "2111r1v1d1220 MHL Monitoring Network December 2020" | pH | Quarterly | Unless otherwise agreed in writing with Natural Resources Wales, monitoring methods used shall be in accordance with Environment Agency document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02) |
| | Electrical Conductivity | | |
| | Ammoniacal Nitrogen | | |
| | Arsenic | | |
| | Boron | | |
| | Copper | | |
| | Vanadium | | |
| | Calcium | | |
| | Nitrate | | |
| | Nitrite | | |
| | Sodium | | |
| | Fluoride | | |
| | Potassium | | |
| | Phosphate | | |
| | Total Alkalinity | | |
| | Chloride | | |
| | Cadmium | | |
| | Molybdenum | | |
| | Selenium | | |
| | Iron | Annually | |
| | Lead | | |
| | Magnesium | | |
| | Mercury | | |
| | Organohalogens (volatile organic compounds) | | |
| | Semi-Volatile Organic Compounds | | |
| | Sulphate | | |
| | Total Chromium | | |
| | Zinc | | |

Table S3.7 Groundwater – other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method |
|---|-------------------------|----------------------|---|
| BH12S, BH25S, BH26S, BH27S, BH28S, BH29S (Shallow Aquifer) as shown on Drawing "2111r1v1d1220 MHL Monitoring Network December 2020" | Groundwater Level | Quarterly | Unless otherwise agreed in writing with Natural Resources Wales. Monitoring methods used shall be in accordance with Environment Agency document 'Guidance on monitoring of landfill leachate, groundwater and surface water' (LFTGN02) |
| | pH | | |
| | Electrical Conductivity | | |
| | Ammoniacal Nitrogen | | |
| | Arsenic | | |
| | Boron | | |
| | Copper | | |
| | Vanadium | | |
| | Calcium | | |
| | Nitrate | | |
| | Nitrite | | |
| | Sodium | | |
| | Fluoride | | |

Table S3.7 Groundwater – other monitoring requirements

| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method |
|---|---|----------------------|-------------------------------|
| | Potassium | | |
| | Phosphate | | |
| | Total Alkalinity | | |
| | Chloride | | |
| | Cadmium | | |
| | Molybdenum | | |
| | Selenium | | |
| BH12S, BH12D, BH25S, BH25D, BH26S, BH26D, BH27S, BH27D, BH28S, BH28D, BH29S, BH29D Shallow and Deep Aquifer as shown on Drawing "2111r1v1d1220 MHL Monitoring Network December 2020" | Iron | Annually | |
| | Lead | | |
| | Magnesium | | |
| | Mercury | | |
| | Organohalogens (Volatile Organic Compounds) | | |
| | Semi-volatile Organic Compounds | | |
| | Sulphate | | |
| | Total Chromium | | |
| | Zinc | | |
| | | | |

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 | | | |
|---|---|---|----------------------|
| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
| Leachate levels As required by condition 3.5.1 and Table S3.1 | L17 and GA30 and all subsequent new leachate monitoring points installed within cells | Weekly (reducing to monthly when landfill is fully capped) | 1 January |
| Groundwater Monitoring parameters as required by condition 3.5.1 and Table S3.2 | BH12S, BH25S, BH26S, BH28S, BH29S (Shallow Aquifer) | Quarterly | 1 January |
| Landfill gas monitoring Parameters as required by condition 3.5.1 and Table S3.3 | Permanently capped zone and Temporarily capped zone | Annually | 1 January |
| Other Landfill gas monitoring Parameters as required by condition 3.5.1 and Table S3.4 | L17 and GA30 | Quarterly | 1 January |
| Leachate Monitoring parameters As required by condition 3.5.1 and Table S3.5 | L17 | Quarterly | 1 January |
| Surface water Monitoring parameters as required by condition 3.5.1 and Table S3.6 | SW13, SW14 and SW15 | Quarterly | 1 January |
| Groundwater Monitoring parameters as required by condition 3.5.1 and Table S3.7 | BH12S, BH12S, BH12D, BH25S, BH25D, BH26S, BH26D, BH27S, BH27D, BH28S, BH28D, BH29S, BH29D (Shallow and Deep Aquifer) | Quarterly | 1 January |

| Table S4.2: Annual production/treatment | |
|--|------------------------------|
| Leachate: | Cubic metres/year |
| Disposed of off-site | |
| Surface water and/or groundwater: | Cubic metres/year |
| Disposed of off-site | |
| Landfill gas: | Normalised cubic metres/year |
| Methods of gas utilisation. | |

| Table S4.3 Performance Parameters | | | |
|--|--------------------------------|---------------------|--------------------|
| Parameter | Frequency of assessment | Annual total | Unit |
| Potable water use | Annually | | Cubic metres |
| Energy used (including for leachate treatment) | Annually | | MWh of electricity |
| Non-potable water use | Annually | | Cubic metres |

| Table S4.4 Reporting Forms | | |
|---|---|---------------------|
| Media/parameter | Reporting Format | Date of form |
| Leachate | Form leachate 1 or other reporting format to be agreed in writing with Natural Resources Wales | 21/10/2021 |
| Water | Form Water 1 or other reporting format to be agreed in writing with Natural Resources Wales | 21/10/2021 |
| Groundwater | Form Groundwater 1 or other reporting format to be agreed in writing with Natural Resources Wales | 21/10/2021 |
| Landfill gas | Form LFG 1 or other reporting format to be agreed in writing with Natural Resources Wales | 21/10/2021 |
| Waste Subject to Conditions 4.2.4 | Waste Return Form RATS2E | N/A |
| Landfill topographical surveys and interpretation | Reporting format to be agreed in writing with Natural Resources Wales | N/A |

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.

Part A

| | |
|--------------------------------|--|
| Permit Number | |
| Name of operator | |
| Location of Facility | |
| | |
| Time and date of the detection | |

| (a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment | |
|--|--|
| To be notified Immediately | |
| 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 permit condition | |
|---|--|
| To be notified immediately | |
| 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) 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: | |
| To be notified immediately | |
| 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 facility in the preceding 24 months. | |

| | |
|------------------|--|
| Name* | |
| Post | |
| Signature | |
| Date | |

* 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) 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).
- (b) 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 SI 2016 No.1154 and words and expressions used in this permit which are also used in the 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.

"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.

"hazardous property" has the meaning in Annex III of the Waste Framework Directive

"hazardous waste" has the meaning given in the Hazardous Waste (Wales) Regulations 2005 (as amended)

"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

"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.

"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.

"Medicinal product" means any medicine licensed by the Medicines and Healthcare Products Regulatory Agency (MHRA) of 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.

“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.

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

“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.

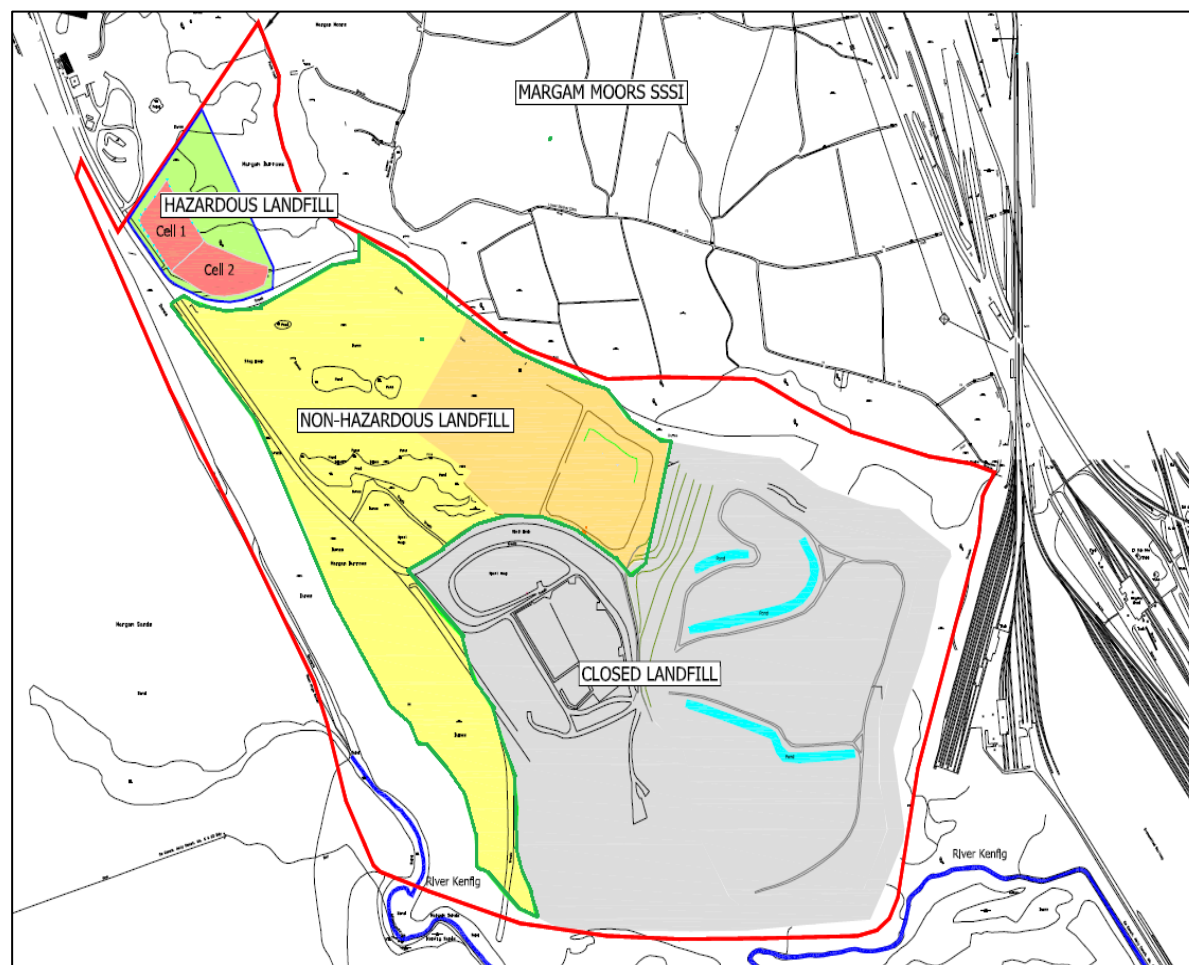
“Waste code” means the six-digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) and in relation to hazardous waste, includes the asterisk.

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.

“year” means calendar year ending 31 December.

Schedule 7 - Site plan



END OF PERMIT