

Shotton Works Landfill Site No 1

Permit Number GP3030BE

Introductory note

This introductory note does not form a part of the Permit

The main features of the installation 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 Corus 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 1 m 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 is the current operational cell and this has an engineered basal liner of 1 m of clay to achieve a maximum permeability of 1×10^{-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 1×10^{-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 but is proposed to be lined prior to the receipt of waste.

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 PPC permit number BR732, 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 no dedicated landfill gas monitoring points, however the six existing leachate chimneys are being used to monitor the concentrations of landfill gas within the waste mass. Historically, very little surface water monitoring data has been collected at the site.

Status Log of the Permit		
Detail	Date	Response Date
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	

Other PPC Permits relating to this installation		
Operator	Permit Number	Date of Issue
Corus UK Ltd	BR7321	12/03/04

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation			
Holder	Reference Number	Date of Issue	Fully or Partially Superseded
British Steel Corporation	141/85	16/10/85	Fully superseded
British Steel Plc	155/89	26/05/89	Fully superseded

End of Introductory Note

Permit

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

Permit

Permit number

GP3030BE

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

Corus UK Ltd ("the Operator"),

whose Registered Office (or principal place of business) is

30 Millbank

London

SW1P 4WY

Company registration number 2280000

to operate an installation at

Shotton Works Landfill Site No 1

Corus UK Ltd

Shotton Works

Shotton

Deeside

Flintshire

CH5 2NH

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

Signed	Date
	31st March 2006

Martin Jenkins, SPG Permitting Team Leader

Authorised to sign on behalf of the Agency

Environment Agency, Richard Fairclough House, Knutsford Road, Warrington, Cheshire, WA4 1HX.

Permit Number GP3030BE

Shotton Works Landfill Site No. 1

Conditions

1. Management

1.1 General management

- 1.1.1 The Activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the Operator as a result of complaints; and
 - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the Activities.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this Permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Accidents that may cause pollution

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

1.3 Finance

- 1.3.1 The financial provision for meeting the obligations under this Permit set out in the Agreement made between the Operator and the Agency dated 31/03/06 shall be maintained by the Operator throughout the subsistence of this Permit and the Operator shall produce evidence of such provision whenever required by the Agency.
- 1.3.2 The Operator shall ensure that the charges it makes for the disposal of waste in the landfill cover all of the following:
- (a) the costs of setting up and operating the landfill;
 - (b) the costs of the financial provision required by condition 1.3.1; and
 - (c) the estimated costs for the closure and aftercare of the landfill.

1.4 Energy efficiency

- 1.4.1 The Operator shall:
- (a) Review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the Activities; and

- (b) Implement any appropriate measures identified by a review.

1.5 Site security

- 1.5.1 Site security measures shall prevent unauthorised access to the Site, as far as practicable.

2. Operations

2.1 Permitted activities

- 2.1.1 The Operator is authorised to carry out the activities specified in Schedule 1 Table S1.1 (the "Activities").

2.2 The site

- 2.2.1 The Activities shall not extend beyond the Site, being the land shown edged in green on the Site Plan at Schedule 2 to this Permit except for the discharge of leachate which shall only be undertaken via the pipeline shown marked red.

2.3 Operating techniques

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

2.4 Off-site conditions

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

2.5 Improvement programme

- 2.5.1 The Operator shall complete the improvements specified in Schedule 1 Table S1.3 by the date specified in that table unless otherwise agreed in writing by the Agency.
- 2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the Operator shall notify the Agency within 14 days of completion of each improvement.

2.6 Pre-operational conditions

- 2.6.1 The operations specified in Schedule 1 Table S1.4B shall not commence until the measures specified in that Table have been completed.

2.7 Engineering

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

2.8 Waste acceptance

- 2.8.1 Wastes shall only be accepted for disposal if:
- (a) they are listed in Schedule 3, and
 - (b) they are non-hazardous waste and
 - (c) from 16th July 2006 they are not whole used tyres (other than bicycle tyres and tyres with an outside diameter of more than 1400mm), and
 - (d) from 16th July 2006 they are not shredded used tyres, and

- (e) from 30th October 2007 they are not liquid waste (including waste waters but excluding sludge), 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 set out in Schedule 1 of the Landfill Regulations 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) from 30th October 2007 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.
- 2.8.5 The Operator shall visually inspect:
- (a) without unloading it, waste that is not in an enclosed container or enclosed vehicle on arrival at the landfill; and
 - (b) waste at the point of deposit;
- and shall satisfy itself that it conforms to the basic characterisation documentation submitted by the holder.
- 2.8.6 Where the Operator has taken samples to establish that the waste is in conformity with the documentation submitted by the holder then the samples taken shall be retained for at least one month and results of any analysis for at least two years.
- 2.8.7 The Operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.8.8 The total quantity of waste that shall be deposited in the landfill shall be limited by the pre-settlement levels shown on the drawing required in accordance with Condition 12 of Table S1.3.
- 2.8.9 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in Schedule 1 Table S1.5.
- 2.8.10 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.

2.9 Leachate levels

- 2.9.1 The limits for the level of leachate listed in Table S4.1 of Schedule 4 shall not be exceeded.

2.10 Closure, aftercare and decommissioning

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

3. Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in Table S4.2 of Schedule 4.
- 3.1.2 The limits given in that Schedule shall not be exceeded.

3.2 Emissions to groundwater

- 3.2.1 There shall be no emission from the Activities into groundwater of any substance in List I (as defined by the Groundwater Regulations) contrary to those Regulations.
- 3.2.2 There shall be no emission from the Activities into groundwater of any substance in List II (as defined in the Groundwater Regulations) so as to cause pollution (as defined in those Regulations).
- 3.2.3 The trigger levels for emissions into groundwater for the parameter(s) and monitoring point(s) set out in Table S4.3 of Schedule 4 shall not be exceeded.
- 3.2.4 The Operator shall submit to the Agency a review of the Hydrogeological Risk Assessment:
- (a) between 9 and 6 months prior to the fourth anniversary of the granting of the Permit, and
 - (b) between 9 and 6 months prior to every subsequent 4 years after the fourth anniversary of the granting of the Permit.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 Litter or mud arising from the Activities shall not cause pollution. The Operator shall not be taken to have breached this condition if appropriate measures have been used to prevent or where that is not practicable to minimise, the litter and mud.
- 3.3.3 Litter or mud arising from the Activities shall be cleared from affected areas outside the Site as soon as practicable.
- 3.3.4 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the Operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

- 3.3.5 The measured values from the monitoring specified in Tables S4.4 and S4.5 of Schedule 4 shall not exceed the limits for the parameter(s) at the monitoring point(s) listed in that schedule.

3.4 Odour

- 3.4.1 Emissions from the Activities shall be free from odour at levels likely to cause annoyance outside the Site, as perceived by an Authorised Officer of the Agency, unless the Operator has used appropriate measures, to prevent or where that is not practicable to minimise the odour.

3.5 Noise and Vibration

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

3.6 Monitoring

- 3.6.1 The Operator shall, unless otherwise agreed in writing by the Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in Schedule 4 to this Permit:

- (a) Leachate levels specified in Table S4.1;
- (b) Groundwater specified in Tables S4.2 and S4.8;
- (c) Landfill Gas specified in Tables S4.3, S4.4 and S4.5;
- (d) Surface water specified in Table S4.7;
- (e) Leachate Quality specified in Table S4.6.

- 3.6.2 The Operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

- 3.6.3 A topographical survey of the Site referenced to Ordnance Datum shall be carried out:

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

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

4. Information

4.1 Records

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

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

4.2 Reporting

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

- (a) a review of the results of the monitoring and assessment carried out in accordance with this Permit against the relevant assumptions, parameters and results in the risk assessments submitted with the Application;
- (b) where the Operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
- (c) the energy consumed at the Site, reported in the format set out in Schedule 5 Table S5.3
- (d) the water consumed at the Site, reported in the format set out in Schedule 5 Table S5.3;
- (e) the annual production/treatment set out in Schedule 5 Table S5.2.
- (f) details of any contamination or decontamination of the Site which has occurred;
- (g) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;

- (h) the volumetric difference (reported in cubic meters) 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;
 - (i) 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;
 - (j) a calculation of the remaining capacity (reported in cubic meters) derived from the pre-settlement contours and the most recent topographical survey; and
 - (k) the compliance testing undertaken in the period.
- 4.2.2 Within 28 days of the end of the reporting period the Operator shall, unless otherwise agreed in writing by the Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in Table S5.1 of Schedule 5;
 - (b) for the reporting periods specified in Table S5.1 of Schedule 5 and using the forms specified in Table S5.4 of Schedule 5; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 4.2.4 The Operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the Permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in Schedule 6 to this Permit within the time period specified in that schedule.
- 4.3.3. Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the permitted activities;
 - (b) as soon as practicable prior to the cessation of the landfill disposal activities, for a period likely to exceed 1 month; and

- (c) at least 7 days prior to the resumption of the landfill disposal activities after a cessation notified under (b) above.
- 4.3.5 Where the Agency has requested in writing that it shall be notified when the Operator is to undertake monitoring and/or spot sampling, the Operator shall inform the Agency when the relevant monitoring is to take place. The Operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 The Agency shall be notified within 7 days of any changes in technically competent management and the name of any incoming person together with evidence that such person has the required technical competence.
- 4.3.7 The Agency shall be provided, within 14 days of the Operator or any relevant person being convicted of a relevant offence, (unless such information has already been notified to the Agency), with details of the nature of the offence, the place and date of conviction, and the sentence imposed.
- 4.3.8 The Agency shall be notified within 14 days of the Operator and/or any relevant person lodging an appeal against a conviction for any relevant offence and of the outcome when the appeal is decided.
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
 - (a) any change in the Operator's name or address; and
 - (b) any steps taken with a view to the dissolution of the Operator.

4.4 Interpretation

- 4.4.1 In this Permit the expressions listed in Schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 Activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 5.2 Part A(1) (a), The disposal of waste in a landfill.	Landfill for non-hazardous waste (landfill classification under the Landfill Regulations 2002).	Receipt, handling, storage and disposal of wastes, consisting of the types and quantities specified in conditions 2.8, as an integral part of landfilling.
Directly Associated Activity		
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 BR7321.
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.
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	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 26th April 2005, 30th June 2005, 11th July 2005, 9th September 2005, 30th September 2005, 23rd March 2006, 27th March 2006 and 31st March 2006. Excluding response to: - B1.4.1 section 3 on requisite surveillance; - B1.4.1 section 3 leachate control and trigger levels. - B1.4.3 section 3.3.3 quarterly monitoring 3.3.4 compliance levels - B2.1.5 – 15 01 04 and 20 10 40 waste types; - B2.2.42 spacing of groundwater boreholes; and - Schedule 4 responses of 30th May 2005 and 9th September 2005 answers on stability of waste slopes. - Response 23rd March 2006 comments on Hydrogeological Risk Assessment.	05/11/2004

Table S1.3 Improvement Programme Requirements

Reference	Requirement	Date
1	The Operator shall submit to the Environment Agency, for its agreement in writing, detailed written proposals for the installation of additional landfill gas monitoring boreholes around the perimeter of the waste mass. The number and spacing of the boreholes should be in accordance with the Environment Agency's document "Guidance on the Management of Landfill Gas" (LFTGN03), dated September 2004, unless other methodology is agreed in writing with the Environment Agency. Details of the installation and final location of the boreholes shall be forwarded to the Environment Agency upon completion. The monitoring of the additional points shall commence immediately upon completion of construction and shall be incorporated into the revised Landfill Gas Management Plan that shall be submitted to the Environment Agency for approval. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	30/09/06

Table S1.3 Improvement Programme Requirements

Reference	Requirement	Date
2	The Operator shall submit to the Environment Agency, for its agreement in writing, detailed written proposals for the installation of dedicated in-waste landfill gas monitoring boreholes within the waste mass in Cells 1, 2 and 3/4 in accordance with the Environment Agency's document "Guidance on the Management of Landfill Gas" (LFTGN03), dated September 2004, unless other methodology is agreed in writing with the Environment Agency. Details of the installation and final location of the boreholes shall be forwarded to the Environment Agency upon completion. The monitoring of the additional points shall commence immediately upon completion of construction and shall be incorporated into the revised Landfill Gas Management Plan that shall be submitted to the Environment Agency for approval. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	31/01/07
3	The Operator shall submit to the Environment Agency, for its agreement in writing, a revised Landfill Gas Management Plan, which will include a review of the perimeter gas monitoring data, including the new gas monitoring points installed in accordance with Condition 2.5.1 Table S1.3 Condition 1 above. 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 the Agency within the timescales indicated in the approval.	Within 8 months of the date of the installation of the boreholes.
4	The Operator shall submit to the Environment Agency, for its agreement in writing, a revised Surface Water Management Plan, to include details of the design, construction, monitoring and maintenance of the surface water management system and all associated culverts, drains and discharge points. The plan shall also include detailed written proposals for the installation of lined surface water collection ditches and detail the location of the surface water monitoring points. Monitoring at these locations shall commence immediately upon receiving the written agreement of the Environment Agency and be carried out in accordance with the Environment Agency's document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02). The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	31/08/06
5	The Operator shall submit to the Environment Agency, for its agreement in writing, detailed written proposals for the installation of five additional external groundwater monitoring boreholes around the site perimeter. The number and spacing of the boreholes should be in accordance with the Environment Agency's document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02), dated February 2003, unless other methodology is agreed in writing with the Environment Agency. Details of the installation and final location of the boreholes shall be forwarded to the Environment Agency upon completion. The monitoring of the additional points shall commence immediately upon completion of construction and shall be incorporated into a revised Groundwater Management Plan that shall be submitted to the Environment Agency for approval. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	31/07/06 Installation and commissioning of boreholes to be completed within 9 months of the date of permit issue.
6	The Operator shall submit to the Environment Agency, for its agreement in writing, a revised Groundwater Management and Monitoring Plan, to include details of the boreholes installed in accordance with Condition 2.5.1 Table S1.3 reference 5 above in accordance with Environment Agency document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water". The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	31/07/06
7	The Operator shall submit to the Environment Agency proposed assessment levels and compliance limits for groundwater quality based on 12 monthly sets of monitoring data acquired from the locations established in accordance with Condition 2.5.1 Table S1.3 reference 6 above. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	Within 14 months of the date installation of the boreholes.
8	The Operator shall submit to the Environment Agency, for its agreement in writing, revised and appropriately justified stability calculations. The calculations shall demonstrate that a minimum Factor of Safety (FoS) of 1.3 exists for the outer slopes for slip surface failures within the waste and bund material. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	30/06/06

Table S1.3 Improvement Programme Requirements

Reference	Requirement	Date
9	The Operator shall submit to the Environment Agency detailed written proposals for the location, design, construction and installation of suitable additional leachate monitoring points in Cells 1, 2 3/4 in accordance with the Environment Agency document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02). Details of the installation and final locations including drilling logs and as-built construction details shall be forwarded to the Environment Agency upon completion. The agreed leachate monitoring programme shall commence as soon as possible after the installation of the monitoring points. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	31/05/06
10	The Operator shall submit to the Environment Agency, for its agreement in writing, proposals for capping the Installation that meets with the requirements of Paragraph 3(7) of Schedule 2 to the Landfill Regulations that will include: • Design details for capping proposals; • A stability assessment to confirm that the capping proposals are suitable; and • Timescales for the installation of the approved capping system for each cell. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	30/06/06
11	The Operator shall submit to Environment Agency a drawing to detail the layout of the all of the cells within the landfill site and pre-settlement contours.	31/05/06
12	The Operator shall submit to the Environment Agency detailed written proposals for the location of surface water monitoring points located within the marsh wetlands to the north and west of the installation. The locations of these monitoring points shall be selected so as to characterise the water quality in the marsh wetland waterways and any impact on these wetlands caused by groundwater flowing beneath the installation and discharging to the marsh. The monitoring locations shall be defined in a revised Surface Water Management Plan that shall be submitted to the Environment Agency for approval. Monitoring at these locations shall commence immediately upon receiving the written agreement of the Environment Agency and be carried out in accordance with the Environment Agency's document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02). The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	30/09/06
13	The Operator shall submit to the Environment Agency proposed assessment levels and compliance limits for surface water quality in the marsh wetlands based on 12 monthly sets of monitoring data acquired from the locations established in accordance with Condition 2.5.1 Table S1.3 Conditions 5 and 12 above. The Operator shall undertake any measures or recommendations approved in writing by the Agency within the timescales indicated in the approval.	Within 14 months of the date of agreement of the monitoring locations.

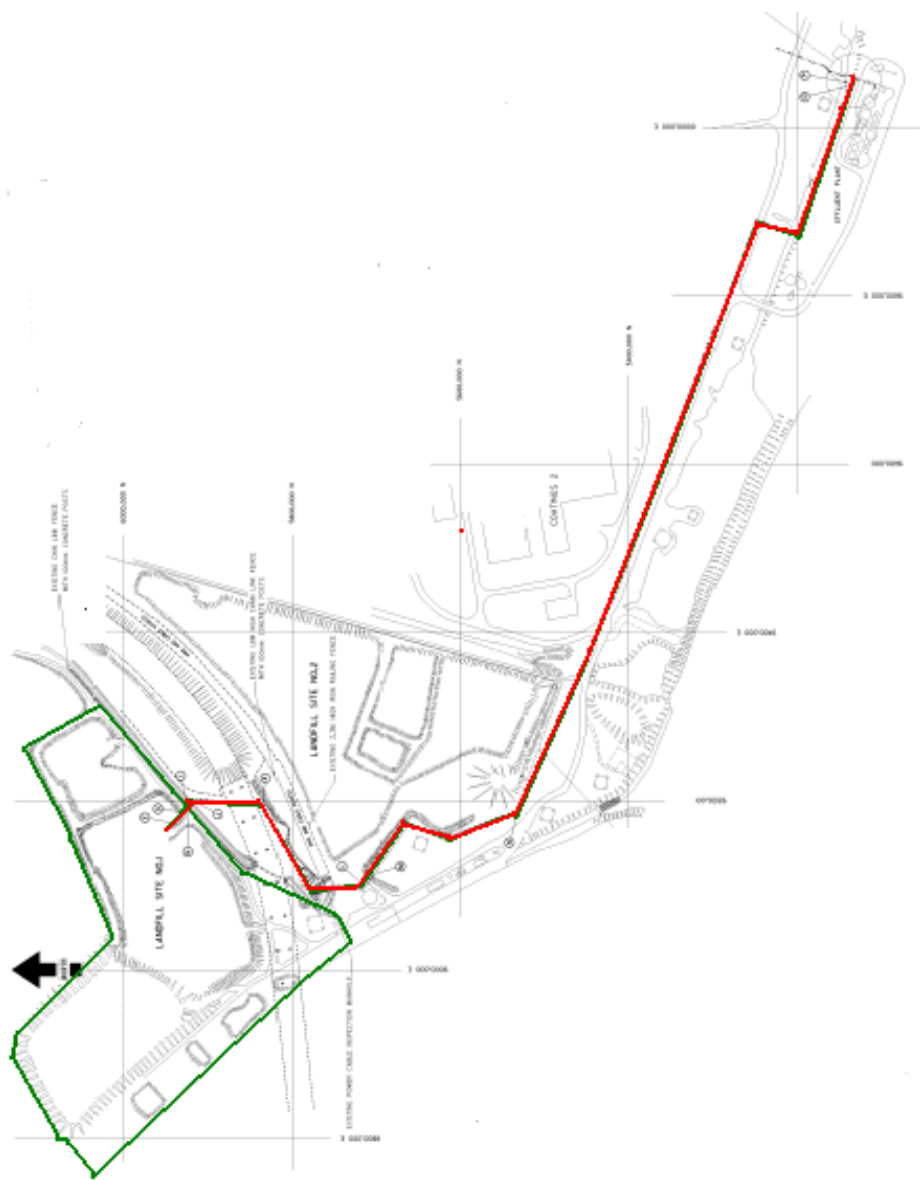
Table S1.4B Pre-operational Measures for Future Development

Reference	Operation	Pre-operational Measures
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

Category	Limit Tonnes/ Year
Non-hazardous Waste	50,000
Inert Waste	20,000
Total	70,000

Schedule 2 - Site plan



Schedule 3 - List of permitted wastes

Non-hazardous wastes for disposal

EWC Code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	plant-tissue waste
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 10	sludges and filter cakes other than those mentioned in 11 01 09
12	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging
15 01 03	wooden packaging
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 11	waste linings and refractories
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soils and stones other than those mentioned in 17 05 03
17 09	other construction and demolition wastes
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard
20 01 02	glass
20 01 11	textiles
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 03	street-cleaning residues

Restoration wastes

EWG code	Description
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	garden and park wastes (including cemetery waste)
20 02 02	soil and stones

Schedule 4 – Emissions and monitoring

Table S4.1 Leachate level limits and monitoring requirements

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
Cells 2 and 3/4 leachate monitoring points	1m above base of cell	Monthly	In accordance with the application or as otherwise agreed with the Environment Agency

Table S4.2 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit) ¹	Reference Period	Monitoring frequency	Monitoring standard or method
BH1	Ammoniacal Nitrogen	1 mg/l	Spot Sample ²	Quarterly	As per Application Appendix 1 Section 2.5 ³
	Nickel	0.03 mg/l	Spot Sample ²	Quarterly	
	Zinc	0.04 mg/l	Spot Sample ²	Quarterly	
BH2	Ammoniacal Nitrogen	1 mg/l	Spot Sample ²	Quarterly	
	Nickel	0.03 mg/l	Spot Sample ²	Quarterly	
	Zinc	1.95 mg/l	Spot Sample ²	Quarterly	
BH9	Ammoniacal Nitrogen	1 mg/l	Spot Sample ²	Quarterly	
	Nickel	0.01 mg/l	Spot Sample ²	Quarterly	
	Zinc	0.04 mg/l	Spot Sample ²	Quarterly	
BH10	Ammoniacal Nitrogen	1 mg/l	Spot Sample ²	Quarterly	
	Nickel	0.03 mg/l	Spot Sample ²	Quarterly	
	Zinc	0.04 mg/l	Spot Sample ²	Quarterly	

1. Assessed as a three-event moving average i.e. the average concentration over three consecutive samples.
2. Samples are to be taken from external monitoring boreholes approximately three hours after high tide.
3. Laboratory selection and accreditation should be in accordance with Section 9.12 of Environment Agency Guidance on Monitoring of Landfill leachate Groundwater and Surface water (LFTGN02).

Table S4.3 Landfill gas in external monitoring boreholes – limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
Boreholes 1, 2, 8, 9 and 10	Methane	1 %v/v	Monthly	In accordance with the application or as otherwise agreed with the Environment Agency
	Carbon Dioxide	1.5 %v/v		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
	Temperature	no limit		
	Meteorological data	no limit		

Table S4.4 Landfill gas from capped surfaces - limits and monitoring requirements

Monitoring point Ref. /description	Parameter	Limit (Including unit)	Monitoring frequency	Monitoring Standard or method
Permanently capped zone	Average Methane flux	0.001 mg/m ² /second	Annually	Flux Box
Temporarily capped zone	Average Methane flux	0.1 mg/m ² /second	Annually	Flux Box

Table S4.5 Landfill Gas – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
In-waste monitoring boreholes L1 – L6	Methane	Monthly	In accordance with the application or as otherwise agreed with the Environment Agency	
	Carbon Dioxide			
	Oxygen			
	Atmospheric pressure			
	Differential pressure			
	Temperature			
	Meteorological Data			

Table S4.6 - Leachate – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency ³	Monitoring standard or method	Other specifications
Cells 0, 1, 2 and 3/4 leachate monitoring points	pH	Quarterly	As per Application Appendix 1 Section 2.3 ¹	
	Electrical conductivity	Quarterly		
	Chloride	Quarterly		
	Ammoniacal Nitrogen	Quarterly		
	Total alkalinity	Quarterly		
	Magnesium	Quarterly		
	Potassium	Quarterly		
	Total sulphates	Quarterly		
	Calcium	Quarterly		
	Sodium	Quarterly		
	COD	Quarterly		
	TOC	Quarterly		
	TON	Quarterly		
	Manganese	Quarterly		
	Iron	Quarterly		
	Chromium	Quarterly		
	Copper	Quarterly		
	Lead	Quarterly		
	Zinc	Quarterly		
	Nickel	Quarterly		
	Cadmium	Quarterly		
	List I ²	Annually		
	Depth to base of monitoring well	Annually		

1. Laboratory selection and accreditation should be in accordance with Section 9.12 of Environment Agency Guidance on Monitoring of Landfill Leachate, Groundwater and Surface water (LFTGN02).
2. Screen an accordance with Appendix 6 of Environment Agency Guidance Document LFTGN01 - Hydrogeological Risk assessments for landfills
3. Initial characterisation frequency. After 4 quarterly samples have been taken frequencies for all parameters may be reduced to annually.

Table S4.7 Surface water – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Surface water monitoring locations required under Conditions 5 and 12 of Table S1.3	pH	Monthly ¹	As per Application	
	Ammoniacal – N	Monthly ¹	Appendix 1 Section 2.4 and in accordance with Improvement	
	COD	Monthly ¹	Condition 13 in Table S1.3 above ^{2, 3}	
	TON	Quarterly		
	Sulphate	Quarterly		
	Potassium	Quarterly		
	Calcium	Quarterly		
	Magnesium	Quarterly		
	Iron	Quarterly		
	Manganese	Quarterly		
	Chromium	Quarterly		
	Copper	Quarterly		
	Nickel	Monthly ¹		
	Lead	Quarterly		
	Zinc	Monthly ¹		

1. Initial characterisation frequency. After 12 monthly samples have been taken frequencies for all parameters may be reduced to quarterly.
2. Laboratory selection and accreditation should be in accordance with Section 9.12 of Environment Agency Guidance on Monitoring of Landfill Leachate Groundwater and Surface Water (LFTGN02).
3. Samples to be taken at or immediately prior to low tide in the marsh watercourses.

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Table S4.8 Groundwater – other monitoring requirements

Emission point reference	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
BH1	Ammoniacal Nitrogen	Quarterly	As per Application	0.9 mg/l Assessment Limit ²
	Nickel	Quarterly	Appendix 1 Section 2.5 ¹	0.027 mg/l Assessment Limit ²
	Zinc	Quarterly		0.036 mg/l Assessment Limit ²
BH2	Ammoniacal Nitrogen	Quarterly	As per Application	0.9 mg/l Assessment Limit ²
	Nickel	Quarterly	Appendix 1 Section 2.5 ¹	0.027 mg/l Assessment Limit ²
	Zinc	Quarterly		1.77 mg/l Assessment Limit ²
BH9	Ammoniacal Nitrogen	Quarterly	As per Application	0.9 mg/l Assessment Limit ²
	Nickel	Quarterly	Appendix 1 Section 2.5 ¹	0.027 mg/l Assessment Limit ²
	Zinc	Quarterly		0.036 mg/l Assessment Limit ²
BH10	Ammoniacal Nitrogen	Quarterly	As per Application	0.9 mg/l Assessment Limit ²
	Nickel	Quarterly	Appendix 1 Section 2.5 ¹	0.027 mg/l Assessment Limit ²
	Zinc	Quarterly		0.036 mg/l Assessment Limit ²
BH1, BH2, BH3, BH4, BH5, BH6, BH7, BH8, BH9, and BH10	Water level	Monthly	As per Application	
	pH	Quarterly	Appendix 1 Section 2.5 ¹	
	Electrical conductivity	Quarterly		
	Chloride	Quarterly		
	Ammoniacal nitrogen	Quarterly		
	BOD	Quarterly		
	COD	Quarterly		
	Dissolved oxygen	Quarterly		
	Total alkalinity	Quarterly		
	Magnesium	Quarterly		
	Potassium	Quarterly		
	Total sulphates	Quarterly		
	Calcium	Quarterly		
	Sodium	Quarterly		
	TON	Quarterly		
	TOC	Quarterly		
	Manganese	Quarterly		
	Iron	Quarterly		
	Chromium	Quarterly		
	Copper	Quarterly		
	Lead	Quarterly		
	Zinc	Quarterly		
	Nickel	Quarterly		
	Cadmium	Quarterly		
	Phenol	Quarterly		
	Mecoprop	Quarterly		
	Monitoring point base	Annually		
	List I	Annually		

1. Laboratory selection and accreditation should be in accordance with Section 9.12 of Environment Agency Guidance on Monitoring of Landfill Leachate Groundwater and Surface water (LFTGN02).
2. Where any groundwater assessment limit is exceeded the operator shall instigate their groundwater action plan.

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Leachate levels As required by condition 3.6.1	All leachate monitoring points as identified in Table S4.1	Every 3 months	31/03/06
Groundwater Parameters as required by condition 3.6.1 List I	BH1, BH2, BH3, BH4, BH5, BH6, BH7, BH8, BH9 and BH10	Every 3 Months Every 12 months	31/03/06
Landfill gas surface emissions Parameters as required by condition 3.6.1	All permanently or temporarily capped areas	Every 12 months	31/03/06
Landfill gas lateral migration Parameters as required by condition 3.6.1	All landfill gas monitoring boreholes as identified in Table S4.3	Every 3 months	31/03/06
Other Landfill gas monitoring Parameters as required by condition 3.6.1	All monitoring points as identified in Table S4.5	Every 3 months	31/03/06
Other leachate monitoring Parameters as required by condition 3.6.1 List I	All leachate monitoring points as identified in Table S4.6	Every 3 months for 12 months and then annually Every 12 months	31/03/06
Other surface water monitoring Parameters as required by condition 3.6.1	All surface water monitoring points as identified in Table S4.7	Every 3 months	31/03/06

Table S5.2: Annual Production/Treatment

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

Table S5.3 Performance Parameters

Parameter	Frequency of assessment	Annual total	Unit
Potable water use	Annually		Cubic metres
Energy used	Annually		MW of electricity
Non potable water use	Annually		Cubic metres

Table S5.4 Reporting Forms		
Media/parameter	Reporting Format	Date of Form
Controlled water	Reporting format to be agreed in writing with the Agency	
Surface water	Reporting format to be agreed in writing with the Agency	
Groundwater	Reporting format to be agreed in writing with the Agency	
Landfill gas	Reporting format to be agreed in writing with the Agency	
Waste summary	Reporting format to be agreed in writing with the Agency	
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Agency	

Schedule 6 - Notification

This page outlines the information that the Operator must provide.

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

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

Part A

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

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

To be notified within 24 hours of detection

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

(b) Notification requirements for the breach of a limit

To be notified within 24 hours of detection unless otherwise specified below

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

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

Part B to be supplied as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Corus UK Ltd

Schedule 7 - Interpretation

“Accident” means an accident that may result in pollution.

“Annually” means once every Year.

“Application” means the application for this Permit, together with any additional information supplied by the Operator as part of the application and any response to a notice served under Schedule 4 to the PPC Regulations

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

“Background concentration” means such concentration of that substance as is present in:

- For emissions to surface water, the surface water quality up-gradient of the site.

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

“CQA Validation Report” means the final “as built” construction and engineering details of the New Cell or of the Landfill Infrastructure. It must provide a comprehensive record of the construction and must include, where relevant:

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

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

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

“Landfill Infrastructure” means any specified element of the:

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

within the Site.

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

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

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

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

“LFTGN 08” means Environment Agency Guidance for monitoring landfill gas engines, September 2004.

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

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;
- leachate abstraction system;

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

for the New Cell.

"No impact" means that the change made to the construction process will not alter the agreed design criteria, specification or performance.

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

"Quarter" means a calendar year quarter commencing on 1 January.

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

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

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

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

"Year" means calendar year ending 31 December.

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

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

END OF PERMIT