

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Clive Hurt (Plant Hire) Limited
Rhuddlan Bach Quarry Landfill Site
Brynteg
Anglesey
LL78 7JJ

Permit number
EPR/FP3590LV

Rhuddlan Bach Quarry Landfill Site

Permit number EPR/FP3590LV

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Waste Management Licence EAWML 37203 was issued in 1999 for the operation of an inert landfill site and non-hazardous waste transfer station. Under the Pollution Prevention and Control (England and Wales) Regulations 2001, inert landfills became installations rather than waste facilities and as a result a new PPC permit had to be issued. In 2007 the landfill was permitted as an installation under the PPC regulations under permit reference WP3132SX.

Permit WP3132SX superseded the Waste Management Licence to the extent of the activities covered by the PPC Regulations, however, it mistakenly superseded the entire licence removing the authorisation for the waste transfer station activities. The waste transfer station was not included in the PPC permit.

Under the Environmental Permitting Regulations 2007, the status of inert landfills again changed to a Waste Facility as it was no longer a listed activity under Schedule 1 of the Regulations. In 2010 the landfill permit was transferred to the current Operator. To record this event the references of the permit were changed to EPR/FP3590LV. A variation was issued to reauthorise the Waste Transfer Station and also update the conditions into the latest EPR permit template.

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

Status log of the permit		
Description	Date	Comments
Waste Management Licence issued EAWML 37203	21/09/1999	Permit issued to C & M Parry Plant Hire Limited
PPC permit issued for landfill site only	16/03/2007	Permit number WP3132SX
Transfer determined	01/02/2010	Permit number EPR/FP3590LV
Regulator initiated variation notice issued	05/10/2012	Addition of transfer station conditions EPR/FP3590LV/V002
Application EPR/FP3590LV/V003	Duly made 27/10/17	Application to vary landfill to increase waste throughput.
Additional information received	12/12/17	Schedule 5 response.
Confirmation of waste phasing arrangements	22/12/17	Proposed Landfill Phases L1 – L9. Drawing Number 1724.02 (Confirmed by email 22/12/17)
Updated site plans	16/02/18	Revised site boundary and pre-settlement levels drawings provided
Permit determined	22/02/18	Permit issued to Clive Hurt Plant Hire Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/FP3590LV

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FP3590LV/V002 number authorising

Clive Hurt (Plant Hire) Limited (“the operator”),
whose registered office is

Sandham House
Redrose Drive
Lancashire Business Park
Leyland
Lancashire
PR26 6TJ

company registration number 01853066

to operate waste operations at

Rhuddlan Bach Quarry Landfill Site
Brynteg
Anglesey
LL78 7JJ

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

Name	Date
Eleanor Ellick	22/02/2018

Authorised on behalf of Natural Resources Wales

Conditions

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 1st February 2010 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 Avoidance, recovery and disposal of wastes produced by the activities

- 1.3.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.3.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.1 and S2.2; and
- (b) it conforms to the description in the documentation supplied by the producer and holder

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 For the following activities referenced in schedule 1, table S1.1 (A1). No construction of any new cell 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 For the following activities referenced in schedule 1, table S1.1 (A1). 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.

- 2.5.3 For the following activities referenced in schedule 1, table S1.1 (A1). The operator shall submit a CQA Validation Report to Natural Resources Wales as soon as practicable following the construction of the new cell.
- 2.5.4 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 Natural Resources Wales has confirmed that it is satisfied with the construction proposals.
- 2.5.5 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 Natural Resources Wales.
- 2.5.6 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the landfill infrastructure.
- 2.5.7 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.4 and 2.5.5 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.
- 2.5.8 For the purposes of conditions 2.5.1, 2.5.3 and 2.5.4, 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.
- 2.5.9 Where Natural Resources Wales has required further information under condition 2.5.8(a), Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
- (a) confirmed whether or not it is satisfied; or
 - (b) informed the operator that it requires further information.

2.6 Waste acceptance

- 2.6.1 For the following activities referenced in schedule 1, table S1.1 (A1). Wastes shall only be accepted for disposal if:
- (a) they are listed in schedule 2, and
 - (b) they are inert waste, and
 - (c) they are not liquid waste (including waste waters but excluding sludge), and
 - (d) all the relevant waste acceptance procedures have been completed, and
 - (e) they fulfil the relevant waste acceptance criteria, and
 - (f) they have not been diluted or mixed solely to meet the relevant waste acceptance criteria, and
 - (g) they are wastes which have been treated, except for wastes for which treatment is not technically feasible.
- 2.6.2 For the following activities referenced in schedule 1, table S1.1 (A1). 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 For the following activities referenced in schedule 1, table S1.1 (A1). 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 For the following activities referenced in schedule 1, table S1.1 (A1). 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 1724.09 dated 20/07/16.
- 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 S1.5.
- 2.6.7 For the following activities referenced in schedule 1, table S1.1 (A1). The operator shall maintain and implement a system which ensures that a record is made of the quantity, characteristics, date of delivery and, where practicable, origin of any waste that is received for disposal or recovery and of the identity of the producer, or in the case of multiple collection vehicles, of the collector of such waste. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

2.7 Closure and aftercare

- 2.7.1 For the following activities referenced in schedule 1, table S1.1 (A1). 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 table S3.1.
- 3.1.2 The limits for surface water quality specified in schedule 3, table S3.5 shall not be exceeded.
- 3.1.3 The limits for landfill gas arising from the facility set out in schedule 3, table S3.3 shall not be exceeded.
- 3.1.4 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 for the parameters specified in the following tables in schedule 3 to this permit:
- (a) Point source emissions specified in table S3.1;
 - (b) Groundwater specified in table S3.2 and S3.6;
 - (c) Landfill gas specified in table S3.3 and S3.4;
 - (d) Surface water specified in table S3.5.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 For the following activities referenced in schedule 1, table S1.1 (A1). A topographical survey of the site referenced to Ordnance Datum shall be carried out:
- (a) annually, or prior to the disposal of waste in any new cell or new development area of the landfill whichever is the shorter period, and
 - (b) 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 For the following activities referenced in schedule 1, table S1.1 (A2) 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.

3.7 Fire

- 3.7.1 For the following activities referenced in schedule 1, table S1.1 (A2) The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.
- 3.7.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities could cause a fire risk, submit to Natural Resources Wales a fire prevention plan which identifies and minimises the risks of fire;
 - (b) Operate the activity in accordance with the fire prevention plan, from the date of submission, 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) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
 - (iii) the results of groundwater monitoring;
 - (iv) landfill gas monitoring;
 - (v) waste types and quantities;
 - (vi) the specification and as built drawings of the basal and sidewall 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) the annual production/ treatment set out in schedule 4 table S4.2.
- (c) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
- (d) 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;
- (e) 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;

- (f) 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 S4.3; 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.

4.3 Notifications

- 4.3.1 Natural Resources Wales shall be notified without delay following the detection of:
 - (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (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 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.

4.4 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 “without delay”, in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities		
	Description of specified activity and WFD Annex I and II operations	Limits of activities
A1	D1 Deposit into or onto land	The deposit of inert waste into or onto land.
		Waste types as specified in Table S2.1.
A2	<p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>D9: Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12.</p> <p>R13 Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p>R3 Recycling/reclamation of organic substances which are not used as solvents</p> <p>R4 Recycling/reclamation of metals and metal compounds</p> <p>R5 Recycling/reclamation of other inorganic compounds</p>	<p>Treatment operations shall be limited to physical treatment including screening, crushing, baling, shredding and pelletising for the purpose of disposal (no more than 75 tonnes per day) or recovery.</p> <p>Waste types as specified in Table S2.2.</p> <p>No more than 400 tonnes of untreated waste shall be stored at any one time</p> <p>No more than a total of 50 tonnes of intact and shredded waste vehicles (waste codes 16 01 03 and 19 12 04) shall be stored at the site.</p> <p>Biodegradable waste shall not be stored for a period of longer than 5 days</p>
A3	D6 Water discharges to controlled waters	Discharges of site drainage from the landfill From surface water management systems to point of entry to controlled waters

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.1, 2.2, 2.3, 2.4, 2.5 and 2.11 of the Application excluding sections: B2.2.4, B2.2.5, B2.2.38, B2.2.42, B2.2.48, B2.2.54, B2.2.56 (in relation to monitoring only) and B2.5.1 (in relation to the first layer of waste only).	9 th November 2005
Schedule 4 Notice dated 6 th April 2006	All parts	Response dated 13 th July 2006
Letter Requesting Further Information dated 16 th August 2006	All parts	Response dated 30 th August 2006
Improvement Programme	Responses to Improvement conditions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16 and 17	Various dates
Application	Risk Assessment and Management Plan	13 th September 2017
Method Statement and Construction Quality Assurance Plan, reference 794.CAU.XX.XX.RP .R.0301.A2 dated February 2017	Proposed Landfill Phases L1 – L9. Drawing Number 1724.02 (Confirmed by email 22/12/17)	March 2017

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
1	The operator shall prepare and submit a Fire Prevention and Mitigation Management Plan for the agreement of Natural Resources Wales. The Plan shall be implemented without delay following the written agreement of Natural Resources Wales.	30 th May 2018
2	The operator shall submit a Site Management System for the agreement of Natural Resources Wales. The Site Management System shall be implemented without delay following the written agreement of Natural Resources Wales.	30 th June 2018
3	The operator shall submit a surface water management plan for the agreement of Natural Resources Wales in writing. The plan shall be implemented by the operator in accordance with the date as notified by Natural Resources Wales.	30 th July 2018
4	The Operator shall provide for approval to NRW a landfill gas risk assessment and management plan. The operator shall establish background concentrations and where breaches of compliance limits are noted, investigations into the cause of any exceedances shall be carried out and remedial strategies proposed.	30 th September 2018
5	The Operator shall carry out and submit a report showing the findings of the Hydrogeological Risk Assessment. Compliance limits based on the results of this review shall be submitted for all parameters.	30 th December 2018

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
6	The Operator shall submit an updated closure and aftercare plan.	30 th January 2019

Table S1.5 Annual waste input limits to landfill

Category	Limit Tonnes/ Year
Inert Waste	125,000

Schedule 2 - List of permitted wastes

Table S2.1 Permitted waste types for disposal		
Waste code	Description	Restrictions
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND	
01 01	wastes from mineral excavation	
01 01 01	wastes from mineral metalliferous excavation ⁽³⁾	
01 01 02	wastes from mineral non-metalliferous excavation ⁽³⁾	
01 04	wastes from physical and chemical processing of non-metalliferous minerals	
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07 ⁽³⁾	
01 04 09	01 04 09 waste sand and clays ⁽³⁾	
10	WASTES FROM THERMAL PROCESSES	
10 11	Wastes from manufacture of glass and glass products	
10 11 03	waste glass-based fibrous materials	Without organic binders
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 14	waste concrete and concrete sludge ⁽³⁾	
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 01	Concrete, bricks, tiles and ceramics	
17 01 01	Concrete ⁽²⁾	Selected C&D waste only
17 01 02	Bricks ⁽²⁾	Selected C&D waste only
17 01 03	Tiles and Ceramics ⁽²⁾	Selected C&D waste only
17 01 07	Mixtures of concrete, bricks, tiles and ceramics ⁽²⁾	Selected C&D waste only
17 02	wood, glass and plastic	
17 02 02	Glass	
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	Excluding topsoil, peat; excluding soils and stones from contaminated sites
17 05 06	dredging spoil other than those mentioned in 17 05 05	
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 ⁽³⁾	
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified	
19 12 09	minerals (for example sand, stones) ⁽³⁾	
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 (only from garden and parks waste) ⁽¹⁾	Only from garden and parks waste; excluding topsoil, peat

(1) For the purposes of waste acceptance, soil includes naturally occurring sands and clays

(2) Selected construction and demolition waste (C & D waste): with low contents of other types of materials (like metals, plastic, organics, wood, rubber, etc). No C & D waste from constructions, polluted with inorganic or organic dangerous substances, e.g. because of production processes in the construction, soil pollution, storage and usage of pesticides or other dangerous substances, etc., unless it is made clear that the demolished construction was not significantly polluted. No C & D waste from constructions, treated, covered or painted with materials, containing dangerous substances in significant amounts.

If it is unsure whether the waste fulfils the definition of inert waste, or is uncontaminated, then testing of the waste must be undertaken to confirm compliance with the criteria for inert waste as specified in Council Decision of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC. The origin of all waste must be known.

(3) Testing of the waste must be undertaken to confirm compliance with the inert waste acceptance criteria as specified in Council Decision of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of and Annex II to Directive 1999/31/EC.

Table S2.2 Permitted waste types and quantities for waste transfer station operations

Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL TREATMENT OF MINERALS
01 01	wastes from mineral excavation
01 01 01	wastes from mineral metalliferous excavation
01 01 02	wastes from mineral non-metalliferous excavation
01 03	wastes from physical and chemical processing of metalliferous minerals
01 03 06	01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05
01 03 09	01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 07
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 08	01 04 08 waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	01 04 09 waste sand and clays
01 04 11	01 04 11 wastes from potash and rock salt processing other than those mentioned in 01 04 07
01 04 12	01 04 12 tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, FOOD PREPARATION AND PROCESSING
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	plant-tissue waste
02 01 04	waste plastics (except packaging)
02 01 07	wastes from forestry
02 01 10	waste metal
02 02	wastes from the preparation and processing of meat, fish and other foods of animal
02 02 03	materials unsuitable for consumption or processing

Table S2.2 Permitted waste types and quantities for waste transfer station operations	
Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	materials unsuitable for consumption or processing
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 02	off-specification calcium carbonate
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 06 02	wastes from preserving agents
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials
02 07 02	wastes from spirits distillation
02 07 04	materials unsuitable for consumption or processing
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood
03 03 07	mechanically separated rejects from pulping of waste paper and cardboard
03 03 08	wastes from sorting of paper and cardboard destined for recycling
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
04	WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01	wastes from the leather and fur industry
04 01 08	waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing
04 01 09	wastes from dressing and finishing
04 02	wastes from the textile industry
04 02 21	wastes from unprocessed textile fibres
04 02 22	wastes from processed textile fibres
06	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 09	wastes from the MSFU of phosphorous chemicals and phosphorous chemical
06 09 02	phosphorous slag
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03
06 11	wastes from the manufacture of inorganic pigments and opacifiers
06 11 01	calcium-based reaction wastes from titanium dioxide production
07	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	waste plastic

Table S2.2 Permitted waste types and quantities for waste transfer station operations	
Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01	wastes from the photographic industry
09 01 07	photographic film and paper containing silver or silver compounds
09 01 08	09 01 08 photographic film and paper free of silver or silver compounds
09 01 10	single-use cameras without batteries
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07	calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 24	sands from fluidised beds
10 02	wastes from the iron and steel industry
10 02 01	wastes from the processing of slag
10 02 02	unprocessed slag
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10	mill scales
10 02 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other sludges and filter cakes
10 03	wastes from aluminium thermal metallurgy
10 03 02	anode scraps
10 03 05	waste alumina
10 03 16	skimmings other than those mentioned in 10 03 15
10 03 18	carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 24	solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26	sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28	wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04	wastes from lead thermal metallurgy
10 04 10	wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05	wastes from zinc thermal metallurgy
10 05 01	slags from primary and secondary production
10 05 09	wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11	dross and skimmings other than those mentioned in 10 05 10
10 06	wastes from copper thermal metallurgy
10 06 01	slags from primary and secondary production
10 06 02	dross and skimmings from primary and secondary production

Table S2.2 Permitted waste types and quantities for waste transfer station operations

Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
10 06 10	wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07	wastes from silver, gold and platinum thermal metallurgy
10 07 01	10 07 01 slags from primary and secondary production
10 07 02	10 07 02 dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 05	sludges and filter cakes from gas treatment
10 07 08	wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08	wastes from other non-ferrous thermal metallurgy
10 08 09	10 08 09 other slags
10 08 11	10 08 11 dross and skimmings other than those mentioned in 10 08 10
10 08 13	10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	10 08 14 anode scrap
10 08 18	10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20	wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09	wastes from casting of ferrous pieces
10 09 03	furnace slag
10 09 06	casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08	10 09 08 casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 14	waste binders other than those mentioned in 10 09 13
10 09 16	waste crack-indicating agent other than those mentioned in 10 09 15
10 10	wastes from casting of non-ferrous pieces
10 10 03	furnace slag
10 10 06	casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 14	waste binders other than those mentioned in 10 10 13
10 10 16	waste crack-indicating agent other than those mentioned in 10 10 15
10 11	wastes from manufacture of glass and glass products
10 11 03	waste glass-based fibrous materials
10 11 10	waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 12	waste glass other than those mentioned in 10 11 11
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18	sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01	waste preparation mixture before thermal processing
10 12 05	sludges and filter cakes from gas treatment
10 12 06	discarded moulds

Table S2.2 Permitted waste types and quantities for waste transfer station operations	
Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12	wastes from glazing other than those mentioned in 10 12 11
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 04	wastes from calcination and hydration of lime
10 13 07	sludges and filter cakes from gas treatment
10 13 10	wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
10 13 99	wastes not otherwise specified
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND
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
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02	wastes from non-ferrous hydrometallurgical processes
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05	wastes from hot galvanising processes
11 05 01	hard zinc
11 05 02	zinc ash
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 01	ferrous metal filings and turnings
12 01 03	non-ferrous metal filings and turnings
12 01 05	plastics shavings and turnings
12 01 13	welding wastes
12 01 17	waste blasting material other than those mentioned in 12 01 16
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 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging

Table S2.2 Permitted waste types and quantities for waste transfer station operations	
Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 03	end-of-life tyres
16 02	16 02 wastes from electrical and electronic equipment
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 03	off-specification batches and unused products
16 03 04	inorganic wastes other than those mentioned in 16 03 03
16 03 06	organic wastes other than those mentioned in 16 03 05
16 06	batteries and accumulators
16 06 04	alkaline batteries (except 16 06 03)
16 06 05	other batteries and accumulators
16 11	waste linings and refractories
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06	linings and refractories from non-metallurgical processes others than those mentioned in
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01	concrete, bricks, tiles and ceramics
17 01 01	concrete
17 01 02	bricks
17 01 03	tiles and ceramics
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02	wood, glass and plastic
17 02 01	wood
17 02 02	glass
17 02 03	plastic
17 03	bituminous mixtures, coal tar and tarred products
17 03 02	bituminous mixtures other than those mentioned in 17 03 01
17 04	metals (including their alloys)
17 04 01	copper, bronze, brass

Table S2.2 Permitted waste types and quantities for waste transfer station operations

Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
17 04 02	aluminium
17 04 03	lead
17 04 04	zinc
17 04 05	iron and steel
17 04 06	tin
17 04 07	mixed metals
17 04 11	cables other than those mentioned in 17 04 10
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
17 05 08	track ballast other than those mentioned in 17 05 07
17 06	insulation materials and asbestos-containing construction materials
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 08	gypsum-based construction material
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
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
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01	wastes from incineration or pyrolysis of waste
19 01 02	ferrous materials removed from bottom ash
19 01 12	bottom ash and slag other than those mentioned in 19 01 11
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17
19 01 19	sands from fluidised beds
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 04	vitrified waste and wastes from vitrification
19 04 01	vitrified waste
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 05	glass
19 12 07	wood other than that mentioned in 19 12 06

Table S2.2 Permitted waste types and quantities for waste transfer station operations	
Maximum quantity	27,000 tonnes per annum
Exclusions	Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres • Wastes that are in a form which is either a sludge or liquid
Waste code	Description
19 12 08	textiles
19 12 09	minerals (for example sand, stones)
19 12 10	combustible waste (refuse derived fuel)
19 13	wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
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 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 40	metals
20 01 41	wastes from chimney sweeping
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 02	soil and stones
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 07	bulky waste

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point Ref. & Location	Source	Parameter	Limit (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Discharge point SW2 as shown in drawing 3030.EMP.01 dated 24/10/17	Site drainage from the surface water and groundwater management system	Suspended Solids	224mg/l	Spot Sample	Monthly	In accordance with Environment Agency document LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.
		pH	>5 and <9 pH units			
		Oil or grease	None visible			
		Chloride	75mg/l			
		Ammoniacal Nitrogen	1.1mg/l			
		Cadmium	0.5µg/l			
		Mineral oil (C8-C40)	0.01 mg/l			

Table S3.2 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Groundwater monitoring point BH3 as shown on drawing 3030.EMP.01 dated 24/10/17	Ammoniacal Nitrogen	6.1mg/l ¹	Spot Sample	Monthly	In accordance with Environment Agency document LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.
	Iron	1.00mg/l			
	Chromium	0.05 mg/l			
	Manganese	1000µg/l ²			
	Nickel	0.02 mg/l			
	Lead	4ug/l			
	Sulphate	250 mg/l			
	Cadmium	0.1 µg/l			
	Mineral Oils (C8-C40)	0.01 mg/l			
Groundwater monitoring point BH4 as shown on drawing 3030.EMP.01 dated 24/10/17	Ammoniacal Nitrogen	1.0mg/l ¹	Spot Sample	Monthly	In accordance with Environment Agency document LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.
	Iron	1.0 mg/l			
	Chromium	0.05 mg/l			
	Manganese	1000 µg/l ²			
	Nickel	0.02 mg/l			
	Lead	4 µg/l			
	Sulphate	250 mg/l			
	Cadmium	1.0 µg/l			
	Mineral Oils (C8-C40)	0.01 mg/l			
Groundwater monitoring point BH5 as shown on drawing 3030.EMP.01 dated 24/10/17	Ammoniacal Nitrogen	0.39mg/l ¹	Spot Sample	Monthly	In accordance with Environment Agency document LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.
	Iron	1.00mg/l			
	Chromium	0.05 mg/			
	Manganese	1000 ug/l ²			
	Nickel	0.02 mg/l			
	Lead	4 ug/l			
	Sulphate	250mg /l			
	Cadmium	1.0ug/l			
	Mineral Oils (C8-C40)	0.01mg/l			

Table S3.2 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Groundwater monitoring point BH6 as shown on drawing 3030.EMP.01 dated 24/10/17	Ammoniacal Nitrogen	0.39 mg/l ¹	Spot Sample	Monthly	In accordance with Environment Agency document LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.
	Iron	1.00 mg/l			
	Chromium	0.05 mg/			
	Manganese	1000 ug/l ²			
	Nickel	0.02 mg/l			
	Lead	4 ug/l			
	Sulphate	250mg/l			
	Cadmium	1.0 ug/l			
	Mineral Oils (C8-C40)	0.01mg/l			

¹ Interim Limit to be reviewed following HRA Review as required under IC4

² Intermim Limit to be reviewed following HRA Review as required under IC4

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

Monitoring point Ref. /description	Parameter	Limit (including units) ¹	Monitoring frequency	Monitoring standard or method
BH1B as shown on drawing 3030.EMP.01 dated 24/10/17	Methane	1%v/v	Monthly	As per LFTGN 07 Version 2, March 2011
	Carbon Dioxide	1.5%v/v		
BH2 as shown on drawing 3030.EMP.01 dated 24/10/17	Methane	1%v/v		
	Carbon Dioxide	1.5%v/v		
BH3 as shown on drawing 3030.EMP.01 dated 24/10/17	Methane	1 %v/v		
	Carbon Dioxide	1.5 %v/v		
BH4 as shown on drawing 3030.EMP.01 dated 24/10/17	Methane	1% v/v		
	Carbon Dioxide	1.5% v/v		
BH5 as shown on drawing 3030.EMP.01 dated 24/10/17	Methane	1 % v/v		
	Carbon Dioxide	1.5 % v/v		
BH6 as shown on drawing 3030.EMP.01 dated 24/10/17	Methane	1 % v/v		
	Carbon Dioxide	1.5 %v/v		
BH1B, BH2, BH3, BH4, BH5, BH6 as shown on drawing 3030.EMP.01 dated 24/10/17	Oxygen	No limit		
	Atmospheric pressure	No limit		
	Differential Pressure	No limit		
	Temperature	No limit		
	Meteorological Data	No limit		

¹ Methane and Carbon Dioxide limits are % above background. Limits are subject to review following IC3.

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	Other specifications
In-waste monitoring points GH1 and GH2 as shown in drawing 1241.EMP.01 dated 21/04/2011	Methane Carbon Dioxide Oxygen Atmospheric pressure Differential pressure Temperature Meteorological Data	Monthly	As per LFTGN 03 2004	-

Table S3.5 Surface water – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
SW1, SW2 and SW3 as shown on drawing 1241.EMP.01 dated 21/04/2011	pH, Oil and Grease, Temperature, Electrical conductivity, Ammoniacal Nitrogen, Chloride, Dissolved Oxygen, Nitrate, COD, Total Suspended Solids, Fe, Cr, Mn, Ni, Pb, PO4 and P, SO4, Cd, Mineral Oils (C8-C40)	Monthly.	In accordance with LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'.	Hazardous substances shall be screened in accordance with the response to Schedule 4 notice dated 13th July 2006.
	BOD, Total Organic Carbon, Total Oxidised Nitrogen, Ca, Mg, Na, K, Alkalinity (CaCO3), Cu, Zn, Hg	Quarterly		
	Hazardous substances screen (including PCBs, PAHs)	Annually		

Table S3.6 Groundwater – other monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Groundwater monitoring points BH1, BH2, BH3, BH4, BH5 and BH6 as shown on drawing 1241.EMP.01 dated 21/04/2011	Dissolved Oxygen, Ca, Cl, Total Organic carbon, Total Oxidised Nitrogen, BOD, COD, Total Dissolved Solids, Mg, NA, K, Alkalinity, (CaCO ₃), Cu, Zn, Hg	Quarterly	In accordance with LFTGN02 'Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water'	
	Hazardous substances screen (including PCBs and PAHs)	Annually		

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
Point source emissions to surface water Parameters as required by condition 3.5.1	SW2	Every 3 months	16 th March 2007
Groundwater Parameters as required by condition 3.5.1	BH1, BH2, BH3, BH4, BH5, BH6	Every 3 Months	16 th March 2007
Hazardous substances		Annually	
Landfill gas external monitoring Parameters as required by condition 3.5.1	BH1, BH2, BH3, BH4, BH5, BH6	Every 3 Months	16 th March 2007
Landfill gas monitoring Parameters as required by condition 3.5.1	In waste boreholes GH 1 and GH2	Every 3 months	16 th March 2007
Surface water – other monitoring Parameters as required by condition 3.5.1	SW1, SW2 and SW3	Every 3 months	16 th March 2007
Hazardous substances		Annually	

Table S4.2: Annual production/treatment	
Sent off-site for recovery or disposal; and	Tonnes/year
Disposed of to on-site landfill	

Table S4.3 Reporting forms		
Media/parameter	Reporting Format	Date of Form
Controlled water	Form water 1 or other reporting format to be agreed in writing with Natural Resources Wales	16 th March 2007
Groundwater	Form groundwater 1 or other reporting format to be agreed in writing with Natural Resources Wales	16 th March 2007
Landfill gas	Form Gas 1 or other reporting format to be agreed in writing with Natural Resources Wales	16 th March 2007
Waste Return	Waste Return Form available from Natural Resources Website	22 nd February 2018

Table S4.3 Reporting forms

Media/parameter	Reporting Format	Date of Form
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with Natural Resources Wales	22 nd February 2018

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.

“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.

“annually” means once every year.

“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.

“Construction Proposals”;

- for new cells, means written information at a level of detail appropriate to the complexity and pollution risk, on stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the new cell.
- for landfill infrastructure, means the design, specifications of materials selected, stability assessment (where relevant) and the construction quality assurance (CQA) programme in relation to the 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-compliance 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.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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

“Pests” means Birds, Vermin and Insects.

“Landfill Infrastructure” means any specified element of the:

- surface water drainage systems;
- groundwater monitoring boreholes;
- landfill gas monitoring boreholes;

within the Site.

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

“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;
- sub-grade;
- artificially established geological barriers;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the new cell.

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

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

“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

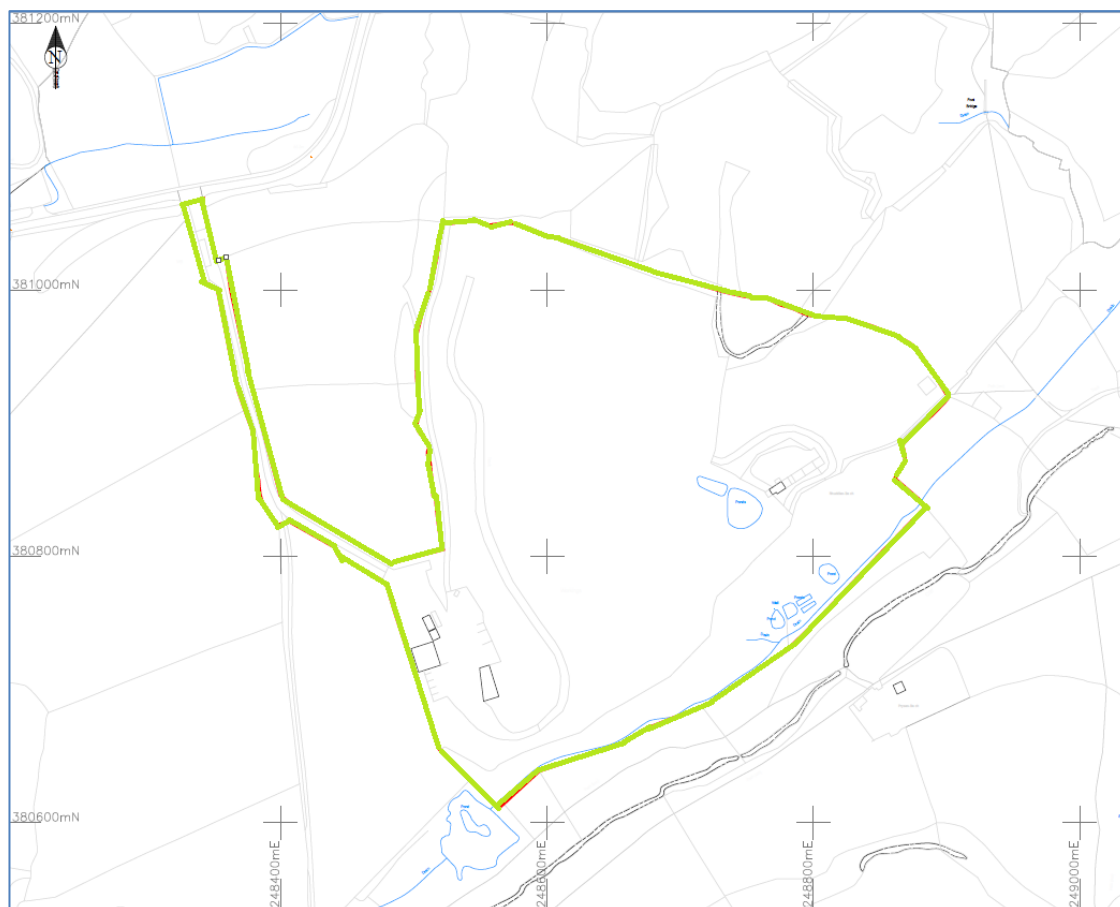
“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or *“WFD”* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

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 the limit.

“year” means calendar year ending 31 December.

Schedule 7 - Site plan



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END OF PERMIT