

# Appendix A

## Environmental Permits

---

- Permit condition comparison – EPR/YB2897TF & EPR/PP3294FJ

### **PERMIT EPR/YB3897TF – TRANSFER STATION**

- EPR/YB3897TF - issued 13/03/2014

Standard Rules SR2008 No. 1 – household, commercial and industrial waste transfer station.

- EPR/YB3897TF Variation (V002) 19/03/15 – administrative variation to increase permitted area.

- Amendment to SR2008 No. 1 - November 2017

Addition of a written fire prevention and mitigation plan to the permit requirements

### **PERMIT EPR/PP3294FJ – FFRIDD RASUS WASTE MANAGEMENT FACILITY**

Tier 3 bespoke permit

1. Civic amenity facility (A1)
2. Closed landfill site (A2)
3. Restoration of landfill (above landfill cap) (A3)

EPR/PP3294FJ (V011) – issued 29/03/2018

Varied and consolidated permit issued in modern condition format

### **PERMIT EPR/GP3330BY – FFRIDD RASUS LANDFILL AREAS 1 & 3**

PERMIT EPR/GP3330BY/V005 – issued 01/04/2016

*Consolidate permit issued to incorporate closure and aftercare requirements.*

*NRW letter 21/11/18 – Changes to emissions monitoring requirements.*

---



## Permit conditions comparison

TRANSFER STATION	CIVIC AMENITY SITE
<p>EPR/YB3897TF</p> <p>Standard Rule Permit SR2008 No 1</p>	<p>EPR/PP3294FJ – 3 tier bespoke permit (29/03/18)</p> <p>CA site (A2) Closed Landfill Site Restoration of landfill</p>
<p><b>1. MANAGEMENT</b></p> <p>1.1 General Management</p> <p>1.1.1 (a) Management System (b) Competent persons</p> <p>1.1.2 Records</p> <p>1.1.3 Records available</p> <p>1.1.4 Competence scheme</p> <p>1.2 Avoidance, recovery and disposal of wastes produced by activities</p> <p>1.2.1 (a) Article 4 – Waste framework directive (hierarchy) (b) Waste treatment – via hierarchy (c) Disposal – if necessary</p> <p>1.2.2 Review every 4 years</p>	<p><b>1. MANAGEMENT</b></p> <p>1.1 General Management</p> <p>1.1.1 (a) Management System (b) Competent persons</p> <p>1.1.2 Records</p> <p>1.1.3 Records available</p> <p>1.1.4 Competence scheme</p> <p>1.2 Avoidance, recovery and disposal of wastes produced by activities</p> <p>1.2.1 (a) Article 4 – Waste framework directive (hierarchy) (b) Waste treatment – via hierarchy (c) Disposal – if necessary</p> <p>1.2.2 Review every 4 years</p>
<p><b>2 OPERATIONS</b></p> <p>2.1 Permitted activities</p> <p>2.2 Waste acceptance</p> <p>2.3 Operating Techniques</p> <p>2.4 The Site</p>	<p><b>2. OPERATIONS</b></p> <p>2.1 Permitted Activities</p> <p>2.2 The Site</p> <p>2.3 Operating Techniques</p> <p>2.4 Technical Requirement WEEE treatment Hazardous waste storage and treatment</p> <p>2.5 Landfill engineering</p> <p>2.6 Waste acceptance</p> <p>2.7 Leachate levels</p> <p>2.8 Closure and aftercare</p> <p>2.9 Landfill gas management</p>
<p><b>3 EMISSIONS AND MONITORING</b></p> <p>3.1 Emissions of substances not controlled by emission limits</p> <p>3.2 Odour</p> <p>3.3 Noise and Vibration</p> <p>3.4 Fire</p>	<p><b>3.. EMISSIONS AND MONITORING</b></p> <p>3.1 Emissions to water, air or land</p> <p>3.2 Emissions of substances not controlled by emission limits</p> <p>3.3 Odour</p> <p>3.4 Noise and Vibration</p> <p>3.5 Pests</p> <p>3.6 Fire</p> <p>3.7 Monitoring</p>
<p><b>4. INFORMATION</b></p> <p>4.1 Records</p> <p>4.2 Reporting</p> <p>4.3 Notifications</p> <p>4.4 Interpretation</p>	<p><b>4. INFORMATION</b></p> <p>4.1 Records</p> <p>4.2 Reporting</p> <p>4.3 Notifications</p> <p>4.4 Interpretation</p>





**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

## **Permit**

The Environmental Permitting (England & Wales) Regulations 2010

---

**Gwynedd Council**

**Fridd Rasus Landfill Site  
Morfa Road  
Harlech  
Gwynedd  
LL46 2UW**

**Permit number  
EPR/YB3897TF**

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**  
**EPR/YB3897TF**

The Natural Resources Body for Wales ("Natural Resources Wales") authorises,  
under regulation 13 of the Environmental Permitting (England and Wales) Regulations  
2010

**Gwynedd Council** ("the operator"),  
of

**Waste Treatment Services**  
**Siambrau Banc Barclays**  
**5-7 Stryd Bangor**  
**Caernarfon**  
**Gwynedd**  
**LL55 1AT**

to operate waste operations at

**Fridd Rasus Landfil Site**  
**Morfa Road**  
**Harlech**  
**Gwynedd**  
**LL46 2UW**

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

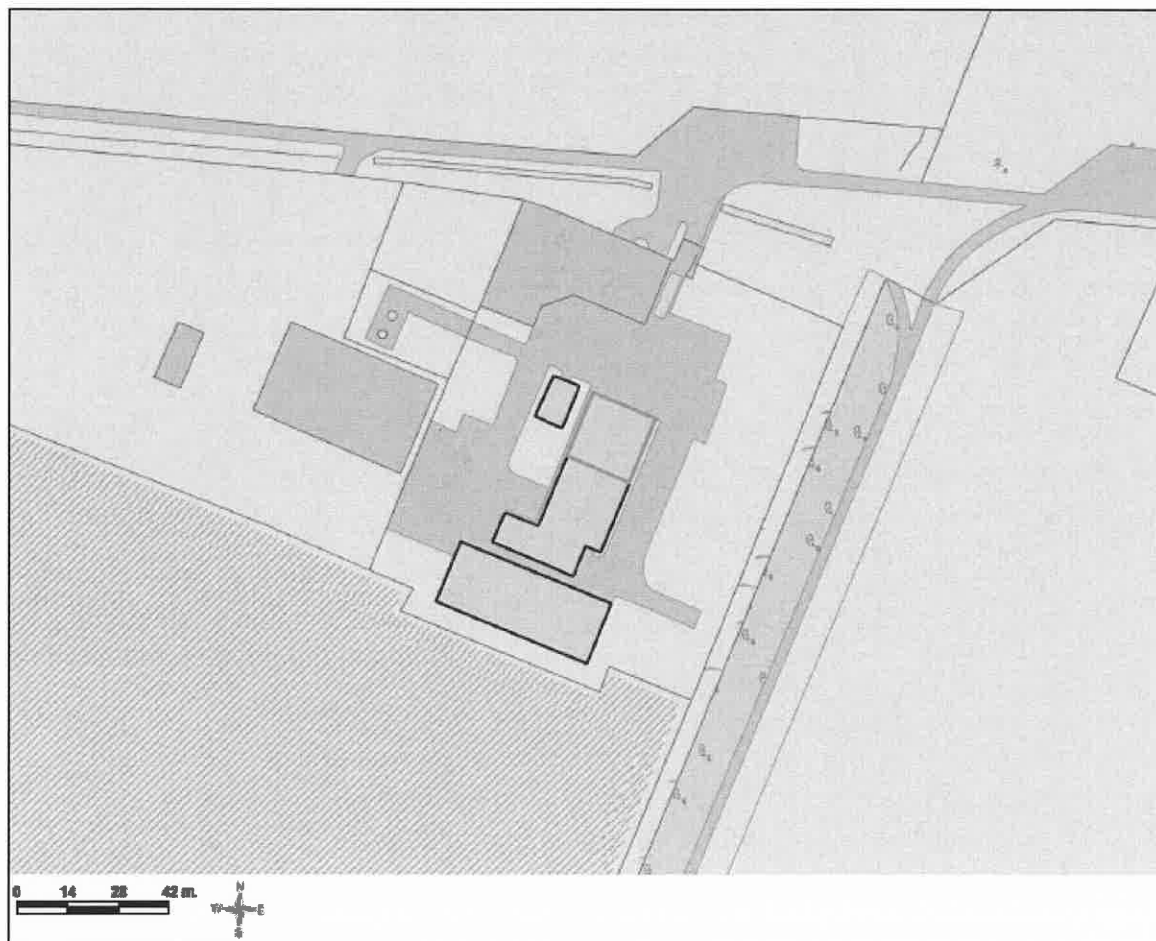
Under regulation 27(2) of the Regulations, standard rules SR2008 No1 are conditions  
of this permit.

Name	Date
<b>Holly Noble</b>	<b>13/03/14</b>

Authorised on behalf of Natural Resources Wales

# Schedule 1 - Site plan

This is the plan referred to in the standard rules SR2008 No1



© Crown Copyright and database right 2013. Ordnance Survey licence number 100019741.

END OF PERMIT





## **Standard rules**

Chapter 4, The Environmental Permitting  
(England and Wales) Regulations 2016



# **Standard rules SR2008 No1 - household, commercial and industrial waste transfer station**

## **Introductory note**

This introductory note does not form part of these standard rules

When referred to in an environmental permit, these rules will allow the operator to operate a Household, Commercial and Industrial Waste Transfer Station at a specified location, provided that the permitted activities are not carried out within 200 metres of a European Site<sup>1</sup>, Ramsar site or a Site of Special Scientific Interest (SSSI); or within 50m of any well spring or borehole used for the supply of water for human consumption. This must include private water supplies.

Permitted wastes are limited to non-hazardous wastes and do not include hazardous wastes such as asbestos. The total quantity of waste that can be accepted at a site under these rules must be less than 75,000 tonnes a year. With the exception of specified waste, all bulking, transfer or treatment of non-hazardous waste must be carried out inside a building. Wastes can be bulked up for disposal or recovery elsewhere and can be manually sorted or separated for recovery but these rules will not allow any waste treatment activities such as screening and crushing. These rules will also not permit the burning of any wastes, either in the open, inside buildings or in any form of incinerator.

These rules do not allow any point source emission into surface waters or groundwater. However, under the emissions of substances not controlled by emission limits rule:

- Liquids may be discharged into a sewer subject to a consent issued by the local water company
- Liquids may be taken off-site in a tanker for disposal or recovery.
- Clean surface water from roofs, or from areas of the site that are not being used in connection with storing and treating waste, may be discharged directly to surface waters, or to groundwater by seepage through the soil via a soakaway.

## **End of introductory note**

---

<sup>1</sup> A candidate or Special Area of Conservation (cSAC or SAC) and proposed or Special Protection Area (pSPA or SPA) in England and Wales.

# Rules

## 1 – Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with rule 1.1.1 shall be maintained.
- 1.1.3 Any persons having duties that are or may be affected by the matters set out in these standard rules shall have convenient access to a copy of them 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 Avoidance, recovery and disposal of wastes produced by the activities

- 1.2.1 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.
- 1.2.2 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 table 2.1 below ("the activities").

Table 2.1 activities	
Description of activities	Limits of activities
<p><b>D15:</b> Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p><b>R13:</b> Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p><b>D14:</b> Repackaging prior to submission to any of the operations numbered D1 to 13</p> <p><b>D9:</b> 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><b>R3:</b> Recycling/reclamation of organic substances which are not used as solvents</p> <p><b>R4:</b> Recycling/reclamation of metals and metal compounds</p> <p><b>R5:</b> Recycling/reclamation of other inorganic materials</p>	<p>Treatment consisting only of manual sorting or manual separation of waste into different components for disposal, (no more than 50 tonnes per day) or recovery.</p> <p>No more than a total of 50 tonnes of intact and shredded waste vehicle tyres (waste codes 16 01 03 and 19 12 04) shall be stored at the site.</p>

## 2.2 Waste acceptance

### 2.2.1 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in table 2.2 below; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

Table 2.2. Waste types and quantities	
<b>Maximum Quantities</b>	
The total quantity of waste accepted at the site shall be less than 75,000 tonnes a year.	
<b>Exclusions</b>	
Wastes having any of the following characteristics shall not be accepted:	
<ul style="list-style-type: none"> <li>Consisting solely or mainly of dusts, powders or loose fibres</li> <li>Wastes that are in a form which is either sludge or liquid.</li> </ul>	
Waste Code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL 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	tailings other than those mentioned in 01 03 04 and 01 03 05
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	waste gravel and crushed rocks other than those mentioned in 01 04 07
01 04 09	waste sand and clays
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07
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, HUNTING AND FISHING, 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 origin
02 02 03	materials unsuitable for consumption or processing
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 chromium
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 processes
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
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	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	filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15	other 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	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
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	slags from primary and secondary production
10 07 02	dross and skimmings from primary and secondary production
10 07 03	solid wastes from gas treatment
10 07 05	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	other slags
10 08 11	dross and skimmings other than those mentioned in 10 08 10
10 08 13	carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14	anode scrap
10 08 18	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	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	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	filter cakes from gas treatment
10 12 06	discarded moulds
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	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

<b>11</b>	<b>WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO METALLURGY</b>
<b>11 01</b>	<b>wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)</b>
<b>11 01 10</b>	<b>filter cakes other than those mentioned in 11 01 09</b>
<b>11 01 14</b>	<b>degreasing wastes other than those mentioned in 11 01 13</b>
<b>11 02</b>	<b>wastes from non-ferrous hydrometallurgical processes</b>
<b>11 02 03</b>	<b>wastes from the production of anodes for aqueous electrolytical processes</b>
<b>11 02 06</b>	<b>wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05</b>
<b>11 05</b>	<b>wastes from hot galvanising processes</b>
<b>11 05 01</b>	<b>hard zinc</b>
<b>11 05 02</b>	<b>zinc ash</b>
<b>12</b>	<b>WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS</b>
<b>12 01</b>	<b>wastes from shaping and physical and mechanical surface treatment of metals and plastics</b>
<b>12 01 01</b>	<b>ferrous metal filings and turnings</b>
<b>12 01 03</b>	<b>non-ferrous metal filings and turnings</b>
<b>12 01 05</b>	<b>plastics shavings and turnings</b>
<b>12 01 13</b>	<b>welding wastes</b>
<b>12 01 17</b>	<b>waste blasting material other than those mentioned in 12 01 16</b>
<b>12 01 21</b>	<b>spent grinding bodies and grinding materials other than those mentioned in 12 01 20</b>
<b>15</b>	<b>WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
<b>15 01 01</b>	<b>paper and cardboard packaging</b>
<b>15 01 02</b>	<b>plastic packaging</b>
<b>15 01 03</b>	<b>wooden packaging</b>
<b>15 01 04</b>	<b>metallic packaging</b>
<b>15 01 05</b>	<b>composite packaging</b>
<b>15 01 06</b>	<b>mixed packaging</b>
<b>15 01 07</b>	<b>glass packaging</b>
<b>15 01 09</b>	<b>textile packaging</b>
<b>15 02</b>	<b>absorbents, filter materials, wiping cloths and protective clothing</b>
<b>15 02 03</b>	<b>absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02</b>
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>
<b>16 01</b>	<b>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)</b>
<b>16 01 03</b>	<b>end-of-life tyres</b>
<b>16 02</b>	<b>wastes from electrical and electronic equipment</b>
<b>16 02 14</b>	<b>discarded equipment other than those mentioned in 16 02 09 to 16 02 13</b>
<b>16 02 16</b>	<b>components removed from discarded equipment other than those mentioned in 16 02 15</b>
<b>16 03</b>	<b>off-specification batches and unused products</b>
<b>16 03 04</b>	<b>inorganic wastes other than those mentioned in 16 03 03</b>
<b>16 03 06</b>	<b>organic wastes other than those mentioned in 16 03 05</b>
<b>16 06</b>	<b>batteries and accumulators</b>
<b>16 06 04</b>	<b>alkaline batteries (except 16 06 03)</b>
<b>16 06 05</b>	<b>other batteries and accumulators</b>
<b>16 11</b>	<b>waste linings and refractories</b>
<b>16 11 02</b>	<b>carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01</b>

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 16 11 05
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
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 PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION/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
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

## 2.3 Operating techniques

- 2.3.1 The activities shall be operated using the techniques and in the manner described in Table 2.3 below.

**Table 2.3 Operating techniques**

1. Unless stored or treated outside as specified waste<sup>2</sup>:
  - a) all bulking, transfer or treatment of waste shall be carried out inside a building;
  - b) all waste shall be stored in a building or within a secure container.
  - c) all waste shall be stored and treated on an impermeable surface with sealed drainage system.
2. Specified waste shall be stored and treated on hard standing or on an impermeable surface with sealed drainage system.

## **2.4 The site**

- 2.4.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan attached to the permit.
- 2.4.2 The activities shall not be carried out within 200 metres of a European Site or a SSSI.
- 2.4.3 The activities shall not be carried out within 50 metres of any well, spring or borehole used for the supply of water for human consumption. This must include private water supplies.

## **3 – Emissions and monitoring**

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

- 3.1.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this rule 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.
- 3.1.2 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;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 3.1.3 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.

### **3.2 Odour**

- 3.2.1 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.
- 3.2.2 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;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

---

<sup>2</sup> “specified waste” is defined in section 4.4 of these standard rules.

### **3.3 Noise and vibration**

3.3.1 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.

3.3.2 The operator shall:

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

### **3.4 Fire**

3.4.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.

3.4.2 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 these standard rules 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 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 land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by these standard rules, 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 these standard rules to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 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 these standard rules; or
- (c) any significant adverse environmental effects.

4.3.2 Written confirmation of actual or potential pollution incidents and breaches of emission limits shall be submitted within 24 hours.

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:

- a) Where the operator is a registered company:
  - any change in the operator's trading name, registered name or registered office address; and
  - any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- b) Where the operator is a corporate body other than a registered company:
  - any change in the operator's name or address; and
  - any steps taken with a view to the dissolution of the operator.
- c) In any other case:
  - the death of any of the named operators (where the operator consists of more than one named individual);
  - any change in the operator's name(s) or address(es); and
  - 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 them being in a partnership, dissolving the partnership.

## **4.4 Interpretation**

4.4.1 In these standard rules the expressions listed below shall have the meaning given.

4.4.2 In these standard rules references to reports and notifications mean written reports and notifications, except when reference is being made to notification being made "without delay", in which case it may be provided by telephone.

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

*“Annex I”* means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“Annex II”* means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste

*“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.

*“building”* means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

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

*“European Site”* means Special Area of Conservation or candidate Special Area of Conservation or Special Protection Area or proposed Special Protection Area in England and Wales, within the meaning of Council Directives 79/409/EEC on the conservation of wild birds and 92/43/EEC on the conservation of natural habitats and of wild flora and fauna and the Conservation (Natural Habitats &c) Regulations 1994. Internationally designated Ramsar sites are dealt with in the same way as European sites as a matter of government policy and for the purpose of these rules will be considered as a European Site.

*“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.

*“impermeable surface”* means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface, and should be read in conjunction with the term “sealed drainage system” (below).

*“Natural Resources Wales”* means the Natural Resources Body for Wales established by article 3 of the Natural Resources Body for Wales (Establishment) Order 2012. The Natural Resources Body for Wales (Functions) Order 2013 transferred the relevant functions of the Countryside Council for Wales, and functions of the Environment Agency and the Forestry Commission in Wales to the Natural Resources Body for Wales.

*“pollution”* means emissions as a result of human activity which may—

- (a) be harmful to human health or the quality of the environment,
- (b) cause offence to a human sense,
- (c) result in damage to material property, or
- (d) impair or interfere with amenities and other legitimate uses of the environment.

*“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.

*“sealed drainage system”* in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- (a) no liquid will run off the surface otherwise than via the system;
- (b) except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

*“specified waste”* means the following waste codes in Table 2.2: 01 01 01, 01 01 02, 01 04 08, 01 04 09, 01 04 13, 02 04 01, 10 11 12, 10 12 08, 10 13 14, 15 01 07, 17 01 01, 17 01 02, 17 01 03, 17 01 07, 17 02 02, 17 03 02, 17 05 04, 17 05 08, 19 12 05, 19 12 09 and 20 02 02.

*“SSSI”* means Site of Special Scientific Interest within the meaning of the Wildlife and Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000).

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

*“year”* means calendar year commencing on 1<sup>st</sup> January.

**End of standard rules**



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

23 MAR 2015

Mr Medwyn Williams  
Gwynedd Council  
Waste Treatment Services  
Siambrau Banc Barclays  
5-7 Stryd Bangor  
Caernarfon  
Gwynedd  
LL55 1AT

**Our ref: EPR/YB3897TF/V002**

**Date: 19 March 2015**

Dear Mr Williams

**Issue of administrative variation**

**Permit reference: EPR/YB3897TF**

**Operator: Gwynedd Council**

**Facility: Ffridd Rasus Landfill Site, Morfa Road, Harlech, Gwynedd, LL46 2UW**

I enclose a notice showing the changes to your permit. Keep this in a safe place with your other permit records.

If you're not already familiar with our document 'How to comply with your environmental permit' please look at it, as this will help you understand how to meet the conditions of the permit. You can find this at <http://naturalresourceswales.gov.uk/apply-and-buy/epr-guidance/guidancetohelpyoucomplywithyourenvironmentalpermit/?lang=en>.

If you don't have internet access, or have any questions about this permit please phone our Customer Services Centre on 0300 065 3000. They will put you in touch with a local area officer.

Yours sincerely

**Alys Rook  
Permitting Officer**

Ffôn/Tel 0300 065 4550

Ffacs/Fax 0300 065 3001

Ebost/Email [alys.rook@cyfoethnaturiolcymru.gov.uk](mailto:alys.rook@cyfoethnaturiolcymru.gov.uk)

[alys.rook@naturalresourceswales.gov.uk](mailto:alys.rook@naturalresourceswales.gov.uk)

Canolfan Trwyddedu Cymru (Caerdydd), Cyfoeth Naturiol Cymru, Tŷ Cambria, 29 Heol Casnewydd, Caerdydd. CF24 0TP

Wales Permitting Centre (Cardiff), Natural Resources Wales, Cambria House, 29 Newport Road, Cardiff. CF24 0TP

Gwefan/Website [www.cyfoethnaturiolcymru.gov.uk](http://www.cyfoethnaturiolcymru.gov.uk)  
[www.naturalresourceswales.gov.uk](http://www.naturalresourceswales.gov.uk)

Croesewir gohebiaeth yn y Gymraeg a'r Saesneg  
Correspondence welcomed in Welsh and English







**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

# **Notice of variation with introductory note**

Environmental Permitting (England & Wales) Regulations 2010

---

**Gwynedd Council**

**Ffridd Rasus Landfill Site**

**Morfa Road**

**Harlech**

**Gwynedd**

**LL46 2UW**

**Variation application number**

**EPR/YB3897TF/V002**

**Permit number**

**EPR/YB3897TF**

# **Ffridd Rasus Landfill Site**

## **Permit number EPR/YB3897TF**

### **Introductory note**

**This introductory note does not form a part of the notice**

The following notice gives notice of the variation of an environmental permit.

This administrative variation is to extend the site boundary only. The area of land which has been added to the permitted site meets the location criteria for the standard rule set in the original permit - SR2008No1. This variation notice includes a revised site plan.

The schedules specify the changes made to the original permit.

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

Status log of the permit		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Permit issued EPR/YB3897TF	13/03/14	Tier 2 permit consisting of standard rule set SR2008No1.
Application EPR/YB3897TF/V002	Duly made 17/12/14	Administrative variation application to increase the permitted area to include the remaining part of the building.
Variation determined EPR/YB3897TF	19/03/15	Variation to increase permitted area issued.

End of introductory note

## **Notice of variation**

**Environmental Permitting (England and Wales) Regulations 2010**

The Natural Resources Body for Wales ("Natural Resources Wales") in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

**Permit number**

**EPR/YB3897TF**

**issued to:**

**Gwynedd Council ("the operator")**

**of**

**Waste Treatment Services**

**Slambrau Banc Barclays**

**5-7 Stryd Bangor**

**Caernarfon**

**Gwynedd**

**LL55 1AT**

**to operate a regulated facility at**

**Ffridd Rasus Landfill Site**

**Morfa Road**

**Harlech**

**Gwynedd**

**LL46 2UW**

**to the extent set out in the schedules.**

**The notice shall take effect from 19/03/2015**

<b>Name</b>	<b>Date</b>
<b>Holly Noble</b>	<b>19/03/2015</b>

**Authorised on behalf of Natural Resources Wales**

**Schedule 1 – conditions to be deleted**

None

**Schedule 2 – conditions to be amended**

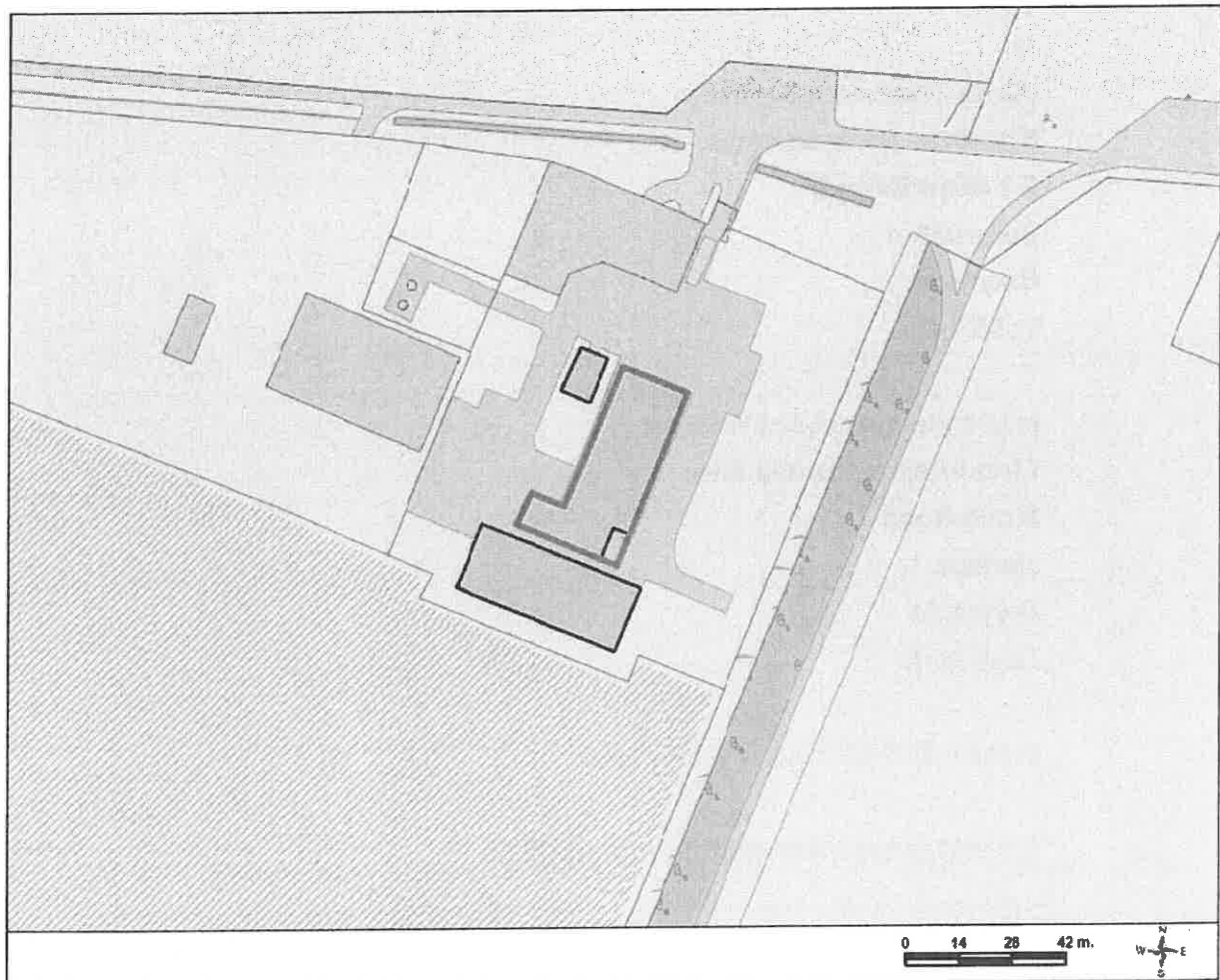
None

**Schedule 3 – conditions to be added**

None

**Schedule 4 – amended plan**

Amended plan attached



© Crown Copyright and database right 2015. Ordnance Survey licence number 100019741.



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

**Gwynedd Council  
Waste Treatment Services  
Siambrau Banc Barclays  
5-7 Stryd Bangor  
Caernarfon  
Gwynedd  
LL55 1AT**

CYNGOR GIWYNEDD  
PRIFYFYRDD A BWRDEISTREFOL

- 1 AWS 2017

**Ein cyf: SR2008 No01: household,  
commercial and industrial waste  
transfer station**

**Dyddiad: 27 Gorffennaf 2017**

Annwyl deiliad trwydded,

### **Newidiadau i Setiau Rheolau Safonol Cyfoeth Naturiol Cymru**

**Cyfeirnod y drwydded: EPR/YB3897TF**

**Deiliad trwydded: Gwynedd Council**

**Cyfeirnod y cyfleuster: Ffridd Rasus Landfill Site**

**Set reolau a ddelir: SR2008 No01: household, commercial and industrial waste transfer station**

#### Beth sy'n digwydd?

Yn dilyn ein hymgyngoriad yn ystod tymor yr hydref 2016 ar ein trwydded rheolau safonol, rydym wedi gwneud newidiadau i'r set reolau safonol (trwydded amgylcheddol) sydd gennych.

Byddwn yn cyhoeddi'r setiau rheolau diwygiedig ar ein gwefan ar 1 Awst 2017. Fel deiliad trwydded cyfredol un o'r setiau rheolau a effeithiwyd, daw'r amodau diwygiedig i rym tri mis ar ôl iddynt gael eu cyhoeddi – hynny yw, ar 1 Tachwedd 2017.

#### Beth sydd angen i chi ei wneud?

Mae angen i chi edrych ar y set reolau ddiwygiedig a'r asesiad risg generig cysylltiedig ar ein gwefan (bydd y rhain yn cael eu cyhoeddi ar 1 Awst) er mwyn sicrhau y gallwch gydymffurfio â'r amodau a'r gofynion newydd.

Edrychwch ar ein dogfen 'Ymateb i'r ymgynghoriad ar newidiadau arfaethedig i drwyddedau rheolau safonol' ar ein gwefan i gael rhagor o wybodaeth am y newidiadau i'ch set reolau safonol benodol.

#### Beth os gallaf gydymffurfio â'r amodau newydd?

Os gallwch gydymffurfio (cyflawni eich gweithgaredd) yn unol â'r amodau newydd, mae angen i chi:

- Fynd i'n gwefan unrhyw bryd ar ôl 1 Awst 2017 a lawrlwytho'r set reolau newydd a'r asesiad risg generig cysylltiedig

0300 065 3000

Y Ganolfan Gofal Cwsmeriaid, Cyfoeth Naturiol Cymru,  
Tŷ Cambria, 29 Heol Casnewydd, Caerdydd, CF24 0TP  
[ymholiadau@cyfoethnaturiolcymru.gov.uk](mailto:ymholiadau@cyfoethnaturiolcymru.gov.uk)  
[www.cyfoethnaturiolcymru](http://www.cyfoethnaturiolcymru)  
Croesewir gohebiaeth yn y Gymraeg a'r Saesneg

0300 065 3000

Customer Care Centre, Natural Resources Wales,  
Cambria House, 29 Newport Road, Cardiff, CF24 0TP  
[enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk)  
[www.naturalresourceswales.gov.uk](http://www.naturalresourceswales.gov.uk)  
Correspondence welcomed in Welsh and English



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

- Gwneud yn siŵr eich bod yn gweithredu yn unol â'r set reolau newydd erbyn 1 Tachwedd 2017

**Beth os na allaf gydymffurfio â'r amodau newydd?**

Os ydych yn gwybod na allwch gydymffurfio â'r amodau newydd, neu os nad ydych yn siŵr a allwch wneud hyn, **siaradwch â'ch swyddog cydymffurfio cyn gynted â phosibl.**

Efallai bydd angen trwydded amgylcheddol bwrpasol arnoch. Ceir rhagor o wybodaeth am sut i gael hon ar ein gwefan. Gallwn hefyd gynnig help i chi fel rhan o'n gwasanaeth cyngori cyn-ymgeisio.

*Cofiwch, chi sy'n gyfrifol am wneud yn siŵr bod gennych y math cywir o drwydded ar gyfer eich gweithgaredd.*

**Mesurau amddiffyn rhag tân ychwanegol ar gyfer deiliaid setiau rheolau safonol penodol**

Ar gyfer y setiau rheolau safonol a restrir isod, nodwch y bydd yn ofynnol i chi reoli a gweithredu eich gweithgareddau yn unol â chynllun atal a lliniaru tân ysgrifenedig. Mae'n rhaid llunio'r cynllun hwn yn unol â'r canllawiau cyfredol. I weld canllawiau ar lunio cynllun atal a lliniaru tân, ewch i <https://naturalresources.wales/permits-and-permissions/environmental-permits/guidance-to-help-you-comply-with-your-environmental-permit/?lang=cy>

I gael copïau o'r setiau rheolau newydd a'r asesiadau risg generig cysylltiedig, ewch i <http://naturalresources.wales/permits-and-permissions/waste/waste-permits/apply-for-a-new-standard-permit-for-waste-operations/?lang=cy>

I gael rhagor o wybodaeth, cysylltwch â swyddog cydymffurfio eich safle.

Hoffem anfon gohebiaeth atoch ynghylch eich trwydded ar e-bost yn y dyfodol. Anfonwch gyfeiriad e-bost cyswllt atom, ynghyd â chyfeirnod eich trwydded, i: [wasteconsultations@cyfoethnaturiolcymru.gov.uk](mailto:wasteconsultations@cyfoethnaturiolcymru.gov.uk)

Yr eiddoch yn gywir

**Rebecca Favager**  
**Rheolwr Strategaeth Cymru Uned Strategaeth Cymru**



**Cynllun atal tân set reolau:**

- SR2008 Rhif1 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol
- SR2008 Rhif2 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol (dim adeilad)
- SR2008 Rhif03 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol â thriniaeth
- SR2008 Rhif04 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol â thriniaeth (dim adeilad)
- SR2008 Rhif05 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol a mannau storio asbestos
- SR2008 Rhif06 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol a mannau storio asbestos (dim adeilad)
- SR2008 Rhif07 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol â thriniaeth a mannau storio asbestos
- SR2008 Rhif08 Gorsaf trosglwyddo gwastraff cartrefi, masnachol a diwydiannol â thriniaeth a mannau storio asbestos (dim adeilad)
- SR2008 Rhif12 Safle mwynder gwastraff o'r cartref nad yw'n beryglus
- SR2008 Rhif13 Safle mwynder gwastraff o'r cartref nad yw'n beryglus a pheryglus
- SR2008 Rhif14 Cyfleuster ailgylchu deunyddiau
- SR2008 Rhif15 Cyfleuster ailgylchu deunyddiau (dim adeilad)
- SR2008 Rhif18 Cyfleuster triniaeth biolegol mecanyddol (aerobig) nad yw'n beryglus
- SR2008 Rhif20 Cyfleuster ar gyfer storio, dadlygru a datgymalu cerbydau (triniaeth awdurdodedig)
- SR2008 Rhif21 Safle ailgylchu metel
- SR2008 Rhif23 Cyfleuster triniaeth awdurdodedig cyfarpar trydanol ac electronig sy'n wastraff
- SR2010 Rhif13 Defnyddio gwastraff i weithgynhyrchu cynnyrch coed neu adeiladu
- SR2011 Rhif02 Safle ailgylchu metel
- SR2011 Rhif03 Cyfleuster ar gyfer storio, dadlygru a datgymalu cerbydau (triniaeth awdurdodedig)
- SR2011 Rhif04 Trin pren gwastraff ar gyfer ei adfer
- SR2012 Rhif14 Cyfleuster ar gyfer ailgylchu metel a storio, dadlygru a datgymalu cerbydau (triniaeth awdurdodedig)

0300 065 3000

Y Ganolfan Gofal Cwsmeriaid, Cyfoeth Naturiol Cymru,  
Tŷ Cambria, 29 Heol Casnewydd, Caerdydd, CF24 0TP  
[ymholiadau@cyfoethnaturiolcymru.gov.uk](mailto:ymholiadau@cyfoethnaturiolcymru.gov.uk)  
[www.cyfoethnaturiolcymru](http://www.cyfoethnaturiolcymru)  
Croesewir gohebiaeth yn y Gymraeg a'r Saesneg

0300 065 3000

Customer Care Centre, Natural Resources Wales,  
Cambria House, 29 Newport Road, Cardiff, CF24 0TP  
[enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk)  
[www.naturalresourceswales.gov.uk](http://www.naturalresourceswales.gov.uk)  
Correspondence welcomed in Welsh and English



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

**Gwynedd Council  
Waste Treatment Services  
Siambrau Banc Barclays  
5-7 Stryd Bangor  
Caernarfon  
Gwynedd  
LL55 1AT**

**Our ref: SR2008 No01: household,  
commercial and industrial waste  
transfer station**

**Date: 27 July 2017**

Dear permit holder,

### **Changes to Natural Resources Wales Standard Rule Sets**

**Permit reference: EPR/YB3897TF**

**Permit holder: Gwynedd Council**

**Facility reference: Ffridd Rasus Landfill Site**

**Rule set held: SR2008 No01: household, commercial and industrial  
waste transfer station**

#### What's happening?

Following our standard rule permit consultation in autumn 2016, we have made changes the standard rule set (environmental permit) you hold.

We will publish the amended rule sets on our website, on the first of August 2017. As an existing permit holder of one of the affected rule sets, the amended conditions come into effect three months after they are published – in other words, on the first of November 2017.

#### What do you need to do?

You need to look at the amended rule set and accompanying generic risk assessment on our website (these will be published on the first of August), to ensure you can comply with the new conditions and requirements.

Look at our 'Response to consultation on proposed changes to standard rule permits' document on our website, for more information about the changes to your particular standard rule set.

#### What if I can comply with the new conditions?

If you can comply (carry out your activity) in line with the new conditions, you need to:

- Go to our website any time after the first of August 2017 and download the new rule set and accompanying generic risk assessment
- Make sure that you are operating in line with the new rule set by the

0300 065 3000

Y Ganolfan Gofal Cwsmeriaid, Cyfoeth Naturiol Cymru,  
Tŷ Cambria, 29 Heol Casnewydd, Caerdydd, CF24 0TP  
[ymholiadau@cyfoethnaturiolcymru.gov.uk](mailto:ymholiadau@cyfoethnaturiolcymru.gov.uk)  
[www.cyfoethnaturiolcymru](http://www.cyfoethnaturiolcymru)  
Croesewir gohebiaeth yn y Gymraeg a'r Saesneg

0300 065 3000

Customer Care Centre, Natural Resources Wales,  
Cambria House, 29 Newport Road, Cardiff, CF24 0TP  
[enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk)  
[www.naturalresourceswales.gov.uk](http://www.naturalresourceswales.gov.uk)  
Correspondence welcomed in Welsh and English





**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

first of November 2017

**What if I can't comply with the new conditions?**

**If you know, or are not sure, whether you can comply with the new conditions, please talk to your compliance officer as soon as possible.**

You may need a bespoke environmental permit. There is more information on how to get this on our website. We can also offer you help as part of our pre-application advice service.

*Please remember, it is your responsibility to make sure you have the right type of permit for your activity.*

**Extra fire protection measures for certain standard rule set holders**

Please note that for the standard rule sets listed below you will be required to manage and operate your activities in accordance with a written fire prevention and mitigation plan (FPMP). This plan must be produced in accordance with the current guidance. To access the FPMP guidance please visit <https://naturalresources.wales/permits-and-permissions/environmental-permits/guidance-to-help-you-comply-with-your-environmental-permit/?lang=en>

For copies for the new rule sets and accompanying generic risk assessments please visit <http://naturalresources.wales/permits-and-permissions/waste/waste-permits/apply-for-a-new-standard-permit-for-waste-operations/?lang=en>

For further information, please contact your site compliance officer.

In the future, we would like to send you correspondence about your permit to you via email. Please send us a contact email address along with your permit reference to [wasteconsultations@cyfoethnaturiolcymru.gov.uk](mailto:wasteconsultations@cyfoethnaturiolcymru.gov.uk).

Yours sincerely

**Rebecca Favager  
SUW Strategy Manager Wales**

0300 065 3000

Y Ganolfan Gofal Cwsmeriaid, Cyfoeth Naturiol Cymru,  
Tŷ Cambria, 29 Heol Casnewydd, Caerdydd, CF24 0TP  
[ymholiadau@cyfoethnaturiolcymru.gov.uk](mailto:ymholiadau@cyfoethnaturiolcymru.gov.uk)  
[www.cyfoethnaturiolcymru](http://www.cyfoethnaturiolcymru)  
Croesewir gohebiaeth yn y Gymraeg a'r Saesneg

0300 065 3000

Customer Care Centre, Natural Resources Wales,  
Cambria House, 29 Newport Road, Cardiff, CF24 0TP  
[enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk)  
[www.naturalresourceswales.gov.uk](http://www.naturalresourceswales.gov.uk)  
Correspondence welcomed in Welsh and English



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

**Fire prevention plan rule sets:**

- SR2008 No01 Household, commercial and industrial waste transfer station
- SR2008 No02 Household, commercial and industrial waste transfer station (no building)
- SR2008 No03 Household, commercial and industrial waste transfer station with treatment
- SR2008 No04 Household, commercial and industrial waste transfer station with treatment (no building)
- SR2008 No05 Household, commercial and industrial waste transfer station and asbestos storage
- SR2008 No06 Household, commercial and industrial waste transfer station & asbestos storage (no building)
- SR2008 No07 Household, commercial and industrial waste transfer station with treatment and asbestos storage
- SR2008 No08 Household, commercial and industrial waste transfer station with treatment & asbestos storage (no building)
- SR2008 No12 Non-hazardous household waste amenity site
- SR2008 No13 Non-hazardous & hazardous household waste amenity site
- SR2008 No14 Materials recycling facility
- SR2008 No15 Materials recycling facility (no building)
- SR2008 No18 Non-hazardous mechanical biological (aerobic) treatment facility
- SR2008 No20 Vehicle storage, depollution & dismantling (authorised treatment) facility
- SR2008 No21 Metal recycling site
- SR2008 No23 WEEE ATF facility (ATF)
- SR2010 No13 Use of waste to manufacture timber or construction products
- SR2011 No02 Metal recycling site
- SR2011 No03 Vehicle storage, depollution & dismantling (authorised treatment) facility
- SR2011 No04 Treatment of waste wood for recovery
- SR2012 No14 Metal recycling, vehicle storage, depollution & dismantling (authorised treatment) facility

0300 065 3000

Y Ganolfan Gofal Cwsmeriaid, Cyfoeth Naturiol Cymru,  
Tŷ Cambria, 29 Heol Casnewydd, Caerdydd, CF24 0TP  
[ymholiadau@cyfoethnaturiolcymru.gov.uk](mailto:ymholiadau@cyfoethnaturiolcymru.gov.uk)  
[www.cyfoethnaturiol.cymru](http://www.cyfoethnaturiol.cymru)  
Croesewir gohebiaeth yn y Gymraeg a'r Saesneg

0300 065 3000

Customer Care Centre, Natural Resources Wales,  
Cambria House, 29 Newport Road, Cardiff, CF24 0TP  
[enquiries@naturalresourceswales.gov.uk](mailto:enquiries@naturalresourceswales.gov.uk)  
[www.naturalresourceswales.gov.uk](http://www.naturalresourceswales.gov.uk)  
Correspondence welcomed in Welsh and English



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

# **Notice of variation and consolidation with introductory note**

The Environmental Permitting (England & Wales) Regulations 2016

---

**Gwynedd Council**

**Ffridd Rasus Waste Management  
Facility**

**Morfa Road**

**Harlech**

**Gwynedd**

**LL46 2UW**

**Variation application number**

**EPR/PP3294FJ/V011**

**Consolidated permit number**

**EPR/PP3294FJ**

# **Ffridd Rasus Waste Management Facility**

## **Consolidated permit number EPR/PP3294FJ**

### **Introductory note**

**This introductory note does not form a part of the notice.**

The following notice gives notice of the variation of environmental permits EPR/PP3294FJ and EPR/BP3398EW in the status logs below and the replacement of those permits with a consolidated environmental permit.

This is an operator initiated variation to:

- consolidate permit EPR/PP3294FJ (civic amenity facility and closed landfill) with EPR/BP3398EW (composting in closed vessels facility and waste transfer activity)
- update the permit to modern conditions
- to add some of the waste codes originally under the composting in closed vessels activity to the civic amenity facility
- remove composting in closed vessels facility (originally in EPR/BP3398EW)
- combine waste transfer activity (originally in EPR/BP3398EW)
- combine the two permitted areas, and add additional areas to the permit boundary
- remove completed improvement conditions.

The schedules specify the changes made to the permit.

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

#### **Status log of permit A: EPR/PP3294FJ**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Waste disposal licence issued NOW-07-L (Landfill) and NOW-24-L (Pulveriser)	13/11/79	Inert Landfill Licence issued to Meirionnydd District Council
Modification determined EAWML 37004 (formerly NOW-07-L (Landfill) and NOW-24- L (Pulveriser))	18/04/97	Licence modified

Modification determined	31/03/99	Licence modified to amend records conditions
Modification determined	04/07/00	Licence Modified
File note issued	02/07/03	File note issued to include Civic Amenity site.
Modification determined	27/02/04	Licence Modified to include temporary storage of refrigerators
Modification determined	08/10/04	Licence Modified
Variation determined EPR/PP3294FJ/V007 (formerly EAWML 37004)	21/10/11	Agency initiated variation to add all the relevant conditions for the Civic amenity site.
Variation determined EPR/PP3294FJ/V008	21/05/13	Varied and consolidated permit issued
Variation determined EPR/PP3294FJ/V009	26/05/17	Administrative variation to add in a waste code 20 01 99.
Variation determined EPR/PP3294FJ/V010	22/12/17	Varied permit issued to add in: <ul style="list-style-type: none"> <li>– waste codes 15 01 05 and 16 05 04 (operator initiated)</li> <li>– conditions relating to fire risk mitigation (regulator initiated).</li> </ul>
Application EPR/PP3294FJ/V011 (variation and consolidation)	Duly made 02/01/18	Variation application to: <ul style="list-style-type: none"> <li>– consolidate permit EPR/PP3294FJ (civic amenity facility and closed landfill) with EPR/BP3398EW (composting in closed vessels facility and waste transfer activity)</li> <li>– update the permit to modern conditions</li> <li>– to add some of the waste codes originally under the composting in closed vessels activity to the civic amenity facility</li> <li>– remove composting in closed vessels facility (originally in EPR/BP3398EW)</li> <li>– combine waste transfer activity (originally in EPR/BP3398EW) with the civic amenity facility</li> <li>– combine the two permitted areas, and add additional areas to the permit boundary</li> <li>– remove completed improvement conditions</li> </ul>
Variation determined EPR/PP3294FJ	29/03/18	Varied and consolidated permit issued in modern condition format

**Status log of permit B: EPR/BP3398EW**

<b>Description</b>	<b>Date</b>	<b>Comments</b>
Licence determined EAWML 100235	02/03/08	Original waste management licence for composting in closed vessels issued to Cynfor Gwynedd
Variation determined EPR/BP3398EW/V002 (formerly EAWML 100235)	02/12/13	Variation to include new activity of waste transfer.
Application EPR/BP3398EW/V003 (variation and consolidation)	Duly made 02/01/18	Variation application to: <ul style="list-style-type: none"> <li>– consolidate permit EPR/PP3294FJ (civic amenity facility and closed landfill) with EPR/BP3398EW (composting in closed vessels facility and waste transfer activity)</li> <li>– update the permit to modern conditions</li> <li>– to add some of the waste codes originally under the composting in closed vessels activity to the civic amenity facility</li> <li>– remove composting in closed vessels facility (originally in EPR/BP3398EW)</li> <li>– combine waste transfer activity (originally in EPR/BP3398EW) with the civic amenity facility</li> <li>– combine the two permitted areas, and add additional areas to the permit boundary</li> <li>– remove completed improvement conditions</li> </ul>
Variation determined EPR/PP3294FJ	29/03/18	Varied and consolidated permit issued in modern condition format

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

<b>Operator</b>	<b>Permit Number</b>	<b>Date of Issue</b>
Gwynedd County Council	GP3330BY	31/10/05

**Other waste permits relating to this facility**

<b>Operator</b>	<b>Permit Number</b>	<b>Date of Issue</b>
Gwynedd County Council	YB3897TF	13/03/13

End of introductory note

## Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales ("Natural Resources Wales") in exercise of its powers under regulations 18 and 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates environmental permits

**permit numbers**

**EPR/PP3294FJ**

**EPR/BP3398EW**

**issued to**

**Gwynedd Council ("the operator")**

**of**

**Council Offices**

**Shire Hall Street**

**Caernarfon**

**Gwynedd**

**LL55 1SH**

**to operate a regulated facility at**

**Ffridd Rasus Waste Management Facility**

**Morfa Road**

**Harlech**

**Gwynedd**

**LL46 2UW**

**to the extent set out in the schedules.**

**The notice shall take effect from 29/03/2018**

**The number of the consolidated permit is EPR/PP3294FJ**

Name	Date
<b>Emily Roe</b>	<b>29/03/2018</b>

**Authorised on behalf of Natural Resources Wales**

### **Schedule 1 – changes in the permit**

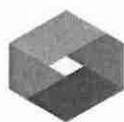
**Note:** The conditions numbers used in this schedule refer to those in the consolidated permit.

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

### **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.





**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2016

---

**Gwynedd Council**

**Ffridd Rasus Waste Management  
Facility**

**Morfa Road**

**Harlech**

**Gwynedd**

**LL46 2UW**

**Permit number**

**EPR/PP3294FJ**

# **Ffridd Rasus Waste Management Facility**

## **Permit number EPR/PP3294FJ**

### **Introductory note**

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

The main features of the permit are as follows.

This is a Tier 3 bespoke permit for a:

- Civic amenity facility (A1)
- Closed Landfill Site (A2)
- Restoration of landfill (above landfill cap) (A3)

Treatment operations for the Civic amenity facility (A1) are limited to manual sorting, separation, shredding and compaction, for the purpose of recovery or disposal. There are no treatments permitted for the Closed Landfill Site (A2) or Restoration of landfill (above landfill cap) (A3).

The maximum quantity of waste accepted and processed on site for the Civic amenity facility (A1) shall not exceed 5,000 tonnes per year. No waste is permitted to be accepted at the Closed Landfill Site (A2), and a total of 13,000 tonnes per year can be used to restore the landfill.

Relevant storage and treatment capacity thresholds have been included in the permit to reflect the legal waste facility operational limits; above which, the site would be operating as an Industrial Emissions Directive installation. (See Table S1.1 for relevant limits.)

Point source emissions are controlled through the 'Emissions to water, air or land' condition and any relevant process requirements set out in Schedules 3 and 4.

All emissions from the activity which are not controlled via actual emission limits, are controlled through the 'emission of substances not controlled by emission limits condition' and any relevant process requirements set out in Tables S1.1 and S1.2.

There are monitoring and reporting requirements for the Closed Landfill Site (A2).

The burning of any wastes, either in the open, inside buildings or in any form of incinerator is not permitted.

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
Application EPR/PP3294FJ/V011 (variation and consolidation)	Duly made 02/01/18	Variation application to: <ul style="list-style-type: none"> <li>– consolidate permit EPR/PP3294FJ (civic amenity facility and closed landfill) with EPR/BP3398EW (composting in closed vessels facility and waste transfer activity)</li> <li>– update the permit to modern conditions</li> <li>– to add some of the waste codes originally under the composting in closed vessels activity to the civic amenity facility</li> <li>– remove composting in closed vessels facility (originally in EPR/BP3398EW)</li> <li>– combine waste transfer activity (originally in EPR/BP3398EW) with the civic amenity facility</li> <li>– combine the two permitted areas, and add additional areas to the permit boundary</li> <li>– remove completed improvement conditions</li> </ul>
Variation determined EPR/PP3294FJ	29/03/18	Varied and consolidated permit issued in modern condition format

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

Operator	Permit Number	Date of Issue
Gwynedd County Council	GP3330BY	31/10/05

#### Other waste permits relating to this facility

Operator	Permit Number	Date of Issue
Gwynedd County Council	YB3897TF	13/03/13

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

**Permit number**

**EPR/PP3294FJ**

The Natural Resources Body for Wales (“Natural Resources Wales”) authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

**Gwynedd Council** (“the operator”),

of

**Council Offices**

**Shire Hall Street**

**Caernarfon**

**Gwynedd**

**LL55 1SH**

to operate waste operations at

**Ffridd Rasus Waste Management Facility**

**Morfa Road**

**Harlech**

**Gwynedd**

**LL46 2UW**

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

Name	Date
<b>Emily Roe</b>	<b>29/03/2018</b>

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

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

- 1.2.1 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.
- 1.2.2 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 For the following activities referenced in schedule 1, table S1.1 (A1)
- Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table(s) S2.1 [, S2.2 etc.]; and
- (b) except for household waste accepted from householders, it conforms to the description in the documentation supplied by the producer and holder.

## 2.4 Technical requirements

### WEEE treatment

- 2.4.1 For the following activities referenced in schedule 1, table S1.1 (A1)
- The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex VIII of the WEEE Directive.
- 2.4.2 For the following activities referenced in schedule 1, table S1.1 (A1)
- Equipment shall be provided to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

### Hazardous waste storage and treatment

- 2.4.3 For the following activities referenced in schedule 1, table S1.1 (A1)
- Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

## 2.5 Landfill Engineering

- 2.5.1 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.
- 2.5.2 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.
- 2.5.3 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the relevant landfill infrastructure.
- 2.5.4 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.1 and 2.5.2 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.
- 2.5.5 For the purpose of condition 2.5.1, 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.
- 2.5.6 Where Natural Resources Wales has required further information under condition 2.5.5(b), Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
  - (a) confirmed whether or not it is satisfied; or
  - (b) informed the operator that it requires further information.

## **2.6 Waste acceptance**

- 2.6.1 For the following activities referenced in schedule 1, table S1.1 (A2)  
No waste shall be accepted for disposal within the facility
- 2.6.2 For the following activities referenced in schedule 1, table S1.1 (A3)  
Wastes shall only be accepted for recovery if:
  - (a) they are listed in schedule 2, table S2.2,
  - (b) they are not liquid waste (including waste waters but excluding sludge).
- 2.6.3 For the following activities referenced in schedule 1, table S1.1 (A3)  
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.
- 2.6.4 For the following activities referenced in schedule 1, table S1.1 (A3)  
The operator on accepting each delivery of waste shall provide a receipt to the person delivering it.
- 2.6.5 The quantity of waste that is deposited in the landfill in any year shall not exceed the limits in schedule 1 table S1.3.
- 2.6.6 For the following activities referenced in schedule 1, table S1.1 (A3)

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 recovery and of the identity of the producer. Any information regarded by the operator as commercially confidential shall be clearly identified in the record.

## **2.7 Leachate levels**

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

## **2.8 Closure and aftercare**

- 2.8.1 For the following activities referenced in schedule 1, table S1.1 (A2)  
The operator shall maintain a closure and aftercare management plan.

## **2.9 Landfill Gas Management**

- 2.9.1 For the following activities referenced in schedule 1, table S1.1 (A2)  
The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
- (a) collect landfill gas; and
  - (b) control the migration of landfill gas.
- 2.9.2 For the following activities referenced in schedule 1, table S1.1 (A2)  
The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall flare or otherwise treat the gas.
- 2.9.3 The operator shall:
- (a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a revised landfill gas management plan;
  - (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

# **3 Emissions and monitoring**

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

- 3.1.1 For the following activities referenced in schedule 1, table S1.1 (A2)  
There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.2, and S3.3.
- 3.1.2 For the following activities referenced in schedule 1, table S1.1 (A2)  
The limits given in Table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.3 For the following activities referenced in schedule 1, table S1.1 (A2)  
There shall be no emission from the activities into groundwater of any hazardous substances contrary to the EP Regulations.
- 3.1.4 For the following activities referenced in schedule 1, table S1.1 (A2)



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

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

3.1.6 For the following activities referenced in schedule 1, table S1.1 (A2)

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.

3.1.7 The limits for landfill gas arising from the facility set out in schedule 3, tables S3.4 and S3.5 shall not be exceeded.

### **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 Pests**

- 3.5.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.5.2 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.

### **3.6 Fire**

- 3.6.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention plan guidance.
- 3.6.2 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.

### **3.7 Monitoring**

- 3.7.1 For the following activities referenced in schedule 1, table S1.1 (A2)

The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:

  - (a) Leachate specified in tables S3.1 and S3.7;

- (b) Point source emissions specified in tables S3.2;
  - (c) Groundwater specified in tables S3.3 and S3.9;
  - (d) Landfill gas specified in tables S3.4, S3.5 and S3.6;
  - (e) Surface water specified in table S3.8; and
- 3.7.2 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.
- 3.7.3 For the following activities referenced in schedule 1, table S1.1 (A2)
- A topographical survey of the site referenced to ordnance datum shall be carried out:
- (a) annually, 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.

## **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;
    - (ii) matters which affect the condition of the land and groundwater;
    - (iii) the results of groundwater monitoring;
    - (iv) sub-surface landfill gas monitoring;
    - (v) leachate levels, quality and quantities;
    - (vi) landfill gas generation and collection;
    - (vii) waste types and quantities
    - (viii) the specification and as built drawings of the basal, sidewall and capping engineering systems.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

## **4.2 Reporting**

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with this permit against the relevant assumptions, parameters and results in the risk assessments submitted in relation to this facility and any agreed amendments thereto;
  - (b) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
  - (c) the annual production/treatment set out in schedule 4 table S4.2;
  - (d) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;
  - (e) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
  - (f) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
  - (g) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey;
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 Within one month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.5 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

## **4.3 Notifications**

- 4.3.1 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		
Activity reference	Description of activities for waste operations	Limits of activities
A1 Civic amenity facility	<b>D15:</b> Storage pending any of the operations number D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	All hazardous and non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage.
	<b>R13:</b> Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Treatment operations shall be limited to manual: <ul style="list-style-type: none"> <li>- sorting and/or separation</li> <li>- shredding</li> <li>- compaction</li> </ul> of permitted waste for the purpose of recovery and/or disposal.
	<b>D14:</b> Repackaging prior to submission to any of the operations number D1 to D13	Asbestos waste shall be double bagged and stored within clearly identified, segregated, secure, lockable containers on an impermeable surface with sealed drainage.
	<b>R3:</b> Recycling/reclamation of organic substances which are not used as solvents	The maximum quantity of <ul style="list-style-type: none"> <li>- hazardous waste oils (in aggregate) that can be accepted stored or treated on site in connection with a disposal operation shall not exceed 10 tonnes per day</li> </ul>
	<b>R4:</b> Recycling/reclamation of metals and metal compounds	<ul style="list-style-type: none"> <li>- asbestos waste received at the site shall not exceed 10 tonnes per day.</li> <li>- asbestos waste stored at the site shall not exceed 10 tonnes at any one time.</li> <li>- intact and shredded waste vehicle tyres (waste code 16 01 03) stored at the site shall not exceed 50 tonnes at any one time.</li> </ul>
	<b>R5:</b> Recycling/reclamation of other inorganic compounds	There shall be no treatment of: <ul style="list-style-type: none"> <li>- 20 01 99 (nappies) other than bulking up for onwards transport.</li> <li>- asbestos waste.</li> </ul> Waste types as specified in Table S2.1.
A2 Closed Landfill Site	<b>D1:</b> Deposit into or on to land  <b>D5:</b> Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)	Management and monitoring of emissions from the closed landfill (e.g. Leachate and landfill gas).
A3 Restoration of landfill	<b>R10:</b> Land treatment resulting in benefit to agriculture or ecological improvement	Recovery of waste for restoration above the landfill cap.  Waste types as specified in Table S2.2.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Technical Guidance Document: 'How to comply with your environmental permit'	All relevant sections	N/A
EPR 5.07: Clinical Waste	All relevant sections	N/A
Sector Guidance Note IPPC S5.06: Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste	All relevant sections	N/A
Fire prevention and mitigation plan guidance - Waste	All relevant sections	N/A
Fire prevention and mitigation plan	All relevant sections	13/02/18
Environmental Management system Ffridd Rasmus Household waste recycling centre (from EPR/PP3294FJ)	All	01/08/11
Landfill Closure Report dated 22/03/2012 (from EPR/PP3294FJ)	All	22/03/12
Odour Management Plan reference 28587rr814i2 (from EPR/PP3294FJ)	All	05/11/13
Risk Assessment reference 28587rr793i3 (from EPR/PP3294FJ)	Appendix C	07/10/13
Risk assessment reference 28587rr797i3 (from EPR/BP3398EW)	All parts relevant to wastes now permitted under this permit	09/10/13
Odour management plan reference 28587rr814i2 (from EPR/BP3398EW)	All parts relevant to wastes now permitted under this permit	06/11/13
Environment management system reference 28587rr443i2 (from EPR/BP3398EW)	All parts relevant to wastes now permitted under this permit	06/11/13

Table S1.3 Annual waste input limits	
Category	Limit (tonnes per year)
Waste for restoration	13,000



## Schedule 2 - Waste types, raw materials and fuels

**Table S2.1** Permitted waste types and quantities for civic amenity site

<b>Maximum quantity</b>	The maximum quantity of waste to be accepted on site shall not exceed 5,000 tonnes per year.
<b>Exclusions</b>	Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> <li>• Solely or mainly of dusts</li> <li>• Powders or loose fibres</li> </ul>
<b>Waste code</b>	<b>Description</b>
<b>02</b>	<b>WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw)
02 01 07	wastes from forestry
<b>02 03</b>	<b>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</b>
02 03 04	materials unsuitable for consumption or processing (consisting of biodegradable waste only)
<b>02 05</b>	<b>wastes from the dairy products industry</b>
02 05 01	materials unsuitable for consumption or processing (consisting of biodegradable waste only)
<b>02 06</b>	<b>wastes from the baking and confectionery industry</b>
02 06 01	materials unsuitable for consumption or processing (consisting of biodegradable waste only)
<b>03</b>	<b>WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD</b>
<b>03 01</b>	<b>wastes from wood processing and the production of panels and furniture</b>
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
<b>03 03</b>	<b>wastes from pulp, paper and cardboard production and processing</b>
03 03 01	waste bark and wood
<b>15</b>	<b>WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED</b>
<b>15 01</b>	<b>packaging (including separately collected municipal packaging waste)</b>
15 01 01	paper and cardboard packaging (excluding veneers, plastic coatings or laminates)
15 01 03	wooden packaging
15 01 05	composite packaging
<b>16</b>	<b>WASTES NOT OTHERWISE SPECIFIED IN THE LIST</b>
<b>16 01</b>	<b>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)</b>
16 01 03	end-of-life tyres
<b>16 05</b>	<b>gases in pressure containers and discarded chemicals</b>
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
16 05 05	gases in pressure containers other than those mentioned in 16 05 04
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>

<b>17 01</b>	<b>concrete, bricks, tiles and ceramics</b>
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
<b>17 02</b>	<b>wood, glass and plastic</b>
17 02 01	wood
<b>17 06</b>	<b>insulation materials and asbestos-containing construction materials</b>
17 06 05*	construction materials containing asbestos
<b>17 08</b>	<b>gypsum-based construction material</b>
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01
<b>18</b>	<b>WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)</b>
<b>18 01</b>	<b>wastes from natal care, diagnosis, treatment or prevention of disease in humans</b>
18 01 03*	wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)
<b>20</b>	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
<b>20 01</b>	<b>separately collected fractions (except 15 01)</b>
20 01 01	paper and cardboard
20 01 02	glass
20 01 08	biodegradable kitchen and canteen waste
20 01 10	clothes
20 01 11	textiles
20 01 13*	solvents
20 01 14*	acids
20 01 15*	alkalines
20 01 17*	photochemicals
20 01 19*	pesticides
20 01 21*	fluorescent tubes and other mercury-containing waste
20 01 23*	discarded equipment containing chlorofluorocarbons
20 01 25	edible oil and fat
20 01 26*	oil and fat other than those mentioned in 20 01 25
20 01 27*	paint, inks, adhesives and resins containing hazardous substances
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 29*	detergents containing hazardous substances
20 01 30	detergents other than those mentioned in 20 01 29
20 01 31*	cytotoxic and cytostatic medicines
20 01 32	medicines other than those mentioned in 20 01 31
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	batteries and accumulators other than those mentioned in 20 01 33
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
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 37*	wood containing hazardous substances
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 01 99	other fractions not otherwise specified- nappies only
20 02	<b>garden and park wastes (including cemetery waste)</b>
20 02 01	biodegradable waste
20 02 02	soil and stones
20 02 03	other non-biodegradable wastes
20 03	<b>other municipal wastes</b>
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 07	bulky waste

**Table S2.2 Permitted waste types and quantities for restoration soils**

<b>Maximum quantity</b>	The maximum quantity of waste to be accepted on site for landfill restoration shall not exceed 13,000 tonnes per year.
<b>Waste code</b>	<b>Description</b>
17	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>
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 soil and stones from contaminated sites)
20	<b>MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS</b>
20 02	<b>garden and park wastes (including cemetery waste)</b>
20 02 02	soil and stones (only from garden and parks waste)

## Schedule 3 – Emissions and monitoring

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

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring standard or method
LW4A, LW5A, LW6A and LW13	1.5 m above cell base	6 monthly	In accordance with Environment Agency document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" (LFTGN02), unless otherwise agreed in writing with Natural Resources Wales

**Table S3.2 Point source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
SW1 as shown on drawing number HRA02 (August 2005)	Oil and grease	Site drainage from area 1 via interceptor	Non-visible	Spot sample	6 monthly	In accordance with Environment Agency 'Guidance on monitoring of Landfill Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in writing with Natural resources Wales.
SW3 as shown on drawing number HRA02 (August 2005)		Site drainage from area 1 via interceptor and unnamed watercourse that runs along the northern and western boundaries of the installation				

**Table S3.3 Trigger levels for emissions into groundwater and monitoring requirements**

Monitoring point reference	Parameter	Limit (Including unit)	Monitoring frequency	Monitoring standard or method
BH19A	Chloride	250 mg/l	6 Monthly	In accordance with Environment Agency Document 'Guidance on monitoring of Landfill Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in
	Ammoniacal Nitrogen	3.6 mg/l		
	Cadmium	5.5 µg/l		
BH19B	Chloride	34 mg/l		
	Ammoniacal Nitrogen	3 mg/l		
	Cadmium	5.5 µg/l		
BH19C	Chloride	34 mg/l		
	Ammoniacal Nitrogen	3 mg/l		
	Cadmium	5.5 µg/l		

**Table S3.3 Trigger levels for emissions into groundwater and monitoring requirements**

<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
BH20A	Chloride	504 mg/l		writing with Natural Resources Wales.
	Ammoniacal Nitrogen	5 mg/l		
	Cadmium	5.5 µg/l		
BH20B	Chloride	504 mg/l		
	Ammoniacal Nitrogen	230 mg/l		
	Cadmium	5.5 µg/l		
BH21A	Chloride	387 mg/l		
	Ammoniacal Nitrogen	266 mg/l		
	Cadmium	5.5 µg/l		
BH21B	Chloride	215 mg/l		
	Ammoniacal Nitrogen	69.7 mg/l		
	Cadmium	5.5 µg/l		
BH29	Chloride	19.8 mg/l		
	Ammoniacal Nitrogen	19.8 mg/l		
	Cadmium	5.5 µg/l		
BH30	Chloride	504 mg/l		
	Ammoniacal Nitrogen	266 mg/l		
	Cadmium	5.5 µg/l		
BH31	Chloride	179 mg/l		
	Ammoniacal Nitrogen	102 mg/l		
	Cadmium	5.5 µg/l		

**Table S3.4 Landfill gas in external monitoring boreholes- limits and monitoring requirements**

<b>Monitoring point Ref. /description</b>	<b>Parameter</b>	<b>Limits (including limits)</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
monitoring borehole BHG03	Methane	1 %v/v	6 Monthly	Monitoring to be carried out in accordance with Environment Agency document "Guidance on Management of Landfill Gas (LFTGN03), unless otherwise agreed in writing with Natural Resources Wales.
	Carbon Dioxide	5.1 %v/v		
	Oxygen	-		
	Atmospheric pressure	-		
monitoring boreholes BHG04	Methane	14.8%v/v		
	Carbon Dioxide	11.1%v/v		
	Oxygen	-		
	Atmospheric pressure	-		
Spiker Bar Survey (eastern boundary, 50m spacing)	Methane	1 %v/v		
	Carbon Dioxide	-		
	Oxygen	-		
	Atmospheric pressure	-		
Spiker Bar Survey (northern boundary 25m spacing)	Methane	1 %v/v		
	Carbon Dioxide	-		
	Oxygen	-		
	Atmospheric pressure	-		

**Table S3.5 Landfill gas from capped surfaces- limits and monitoring requirements**

<b>Monitoring point Ref. /description</b>	<b>Parameter</b>	<b>Limits (including limits)</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Permanently capped zone	Average methane flux and total methane emission	Average zone emission rate of 0.001 mg/m <sup>2</sup> /second	Annually	In accordance with Environment Agency document LFTGN 07 V2 2010 unless otherwise agreed in writing with Natural Resources Wales.

**Table S3.6 Landfill gas – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Internal Landfill gas boreholes BH1, BH2, BH3, BH4, BH5, BH6, BH7, BH8, BH8A, BH9, BH10, BH11, BH12, BH13, BH14, BH15, BH16, /bh17, BH18, BH19, BH20, BH21, BH22 and BH23. GW1, GW2, GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, GW11, GW12, GW13 and GW14	Methane Carbon Dioxide Oxygen Carbon Monoxide Atmospheric pressure Differential pressure Meteorological Data	Quarterly	In accordance with Environment Agency Document "Guidance on Management of Landfill Gas" (LFTGN03), unless otherwise agreed in writing with Natural Resources Wales.
Input to LFG Utilisation Compound.	Trace gas analysis	Annually	In accordance with Environment Agency's guidance document "Guidance for monitoring trace components in landfill gas" (LFTGN04), unless otherwise agreed in writing with Natural Resources Wales.
Input to LFG Utilisation Compound	Methane Carbon Dioxide Oxygen Gas flow rate % Balance Gas (calculated as the difference between the sum of measured gases and 100%)	Fortnightly	
Landfill gas flare	Oxides of nitrogen Carbon monoxide Total VOC's	Annually	In accordance with Environment Agency Guidance Document M2 (Version 8.1, December 2011), unless otherwise agreed in writing with Natural Resources Wales.

**Table S3.7 Leachate – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
LW4A, LW5A., LW6A and LW13	Level, Temperature, Cl, pH, EC, NH <sub>4</sub> , Ca, Mg, K, Na, Alkalinity, TOC, SO <sub>4</sub> , TON, phenol, COD, BOD.	Six Monthly	In accordance with Environment Agency document "Guidance on monitoring of landfill leachate, Groundwater and Surface Water (LFTGN02), unless otherwise agreed in writing with Natural Resources Wales.
LW4A, LW5A., LW6A and LW13	Cd, CR, Cu, Fe, Pb, Mn, Ni, Zn and Hazardous Substances	Annually	Appendix 6 of H1 – Annex J3 "Additional guidance for hydrogeological risk assessments for landfills and the derivation of groundwater control levels and compliance limits"

**Table S3.8 Surface water – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
SW1, SW2, SW3	Cl, COD, DO, EC, NH <sub>4</sub> , pH, Temperature	6-monthly	In accordance with Environment Agency Document 'Guidance on monitoring of Landfill Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in writing with Natural resources Wales.

**Table S3.9 Groundwater – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
BH1, BH15, BH18 (A&B), BH19 (A, B & C), BH20 (A&B), BH21 (A&B), BH23, BH24, BH27-BH36 and NRA3.	Water level, DO, pH, EC, NH <sub>4</sub> , Cl, Ca, Mg, K, Na, Alkalinity, TOC, SO <sub>4</sub> , TON, Phenol and Cd.	Quarterly	Monitoring to be carried out in accordance with Environment Agency Document 'Guidance on monitoring of Landfill Leachate, Groundwater and Surface Water' (LFTGN02), unless otherwise agreed in writing with Natural Resources Wales.
	Cr, Cu, Fe, Pb, Mn, Ni and Zn.	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
Leachate levels As required by condition 3.7.1	LW4A, LW5A, LW6A and LW13	Every 6 months	01/06
Emissions to air Parameters as required by condition 3.7.1	Landfill Gas Flare	Every 12 months	01/06
Emissions to water Parameters as required by condition 3.7.1	SW1, SW3	Every 6 months	01/06
Groundwater Parameters as required by condition 3.7.1	BH19A, B & C BH20 A & B BH21 A & B BH29, BH30, BH31	Every 6 months	01/06
Landfill gas surface emissions Parameters as required by condition 3.7.1	BHG03, BHG04, Spike Bar Surveys	Every 6 months	01/06, 01/12
Other Landfill gas monitoring Parameters as required by condition 3.7.1	Landfill gas boreholes BH1, BH2, BH3, BH4, BH5, BH6, BH7, BH8, BH8A, BH9, BH10, BH11, BH12, BH13, BH14, BH15, BH16, /bh17, BH18, BH19, BH20, BH21, BH22 and BH23. GW1, GW2, GW3, GW4, GW5, GW6, GW7, GW8, GW9, GW10, GW11, GW12, GW13 and GW14	Every 3 months	01/03, 01/06, 01/09, 01/12
Other leachate monitoring Parameters as required by condition 3.7.1	LW4A, LW5A., LW6A and LW13	Every 6 months	01/06, 01/12
Hazardous substance screen		Every 12 months	01/12
Other surface water monitoring Parameters as required by condition 3.7.1	SW1, SW2, SW3	Every 6 months	01/06, 01/12

Table S4.2: Annual production/treatment	
Parameter	Units
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



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

<b>Parameter</b>	<b>Units</b>
<b>Landfill gas:</b> <ul style="list-style-type: none"> <li>- combustion in flares;</li> <li>- combustion in gas engines;</li> <li>- Other methods of gas utilisation.</li> </ul>	Normalised cubic metres/year

**Table S4.3 Reporting forms**

<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Leachate	Form leachate 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Air	Form Air 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Controlled water	Form water 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Groundwater	Form groundwater 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Landfill gas	Form Gas 1 or other reporting format to be agreed in writing with the Natural Resources Wales	21/05/13
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with the Natural Resources Wales	21/05/13

## Schedule 5 - Notification

These pages outline 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 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**

**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 submitted 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.	

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

\* authorised to sign on behalf of the operator

## Schedule 6 - Interpretation

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

*“Annex I”* means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“Annex II”* means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

*“annually”* means once every year.

*“application”* means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

*“authorised officer”* means any person authorised by Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

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

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

*“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 Landfill Infrastructure.

*“CQA Validation Report”* means the final “as built” construction and engineering details 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 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.

*"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.

*"End-of-Life Vehicles Directive"* means Directive 2000/53/EC of the European Parliament and Council of 18 September 2000 on end-of-life vehicles.

*"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.

*"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 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.

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

*"impermeable surface"* means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the surface.

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

- permanent capping;
- 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.

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

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

*"LFTGN 07"* means Environment Agency Guidance on monitoring landfill gas surface emissions.

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

*"M2"* means Environment Agency Guidance Monitoring of stack emissions to air.

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

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

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

for the New Cell.

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

*"Pests"* means Birds, Vermin and Insects.

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

*"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.

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

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

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

*"WEEE"* means waste electrical and electronic equipment.

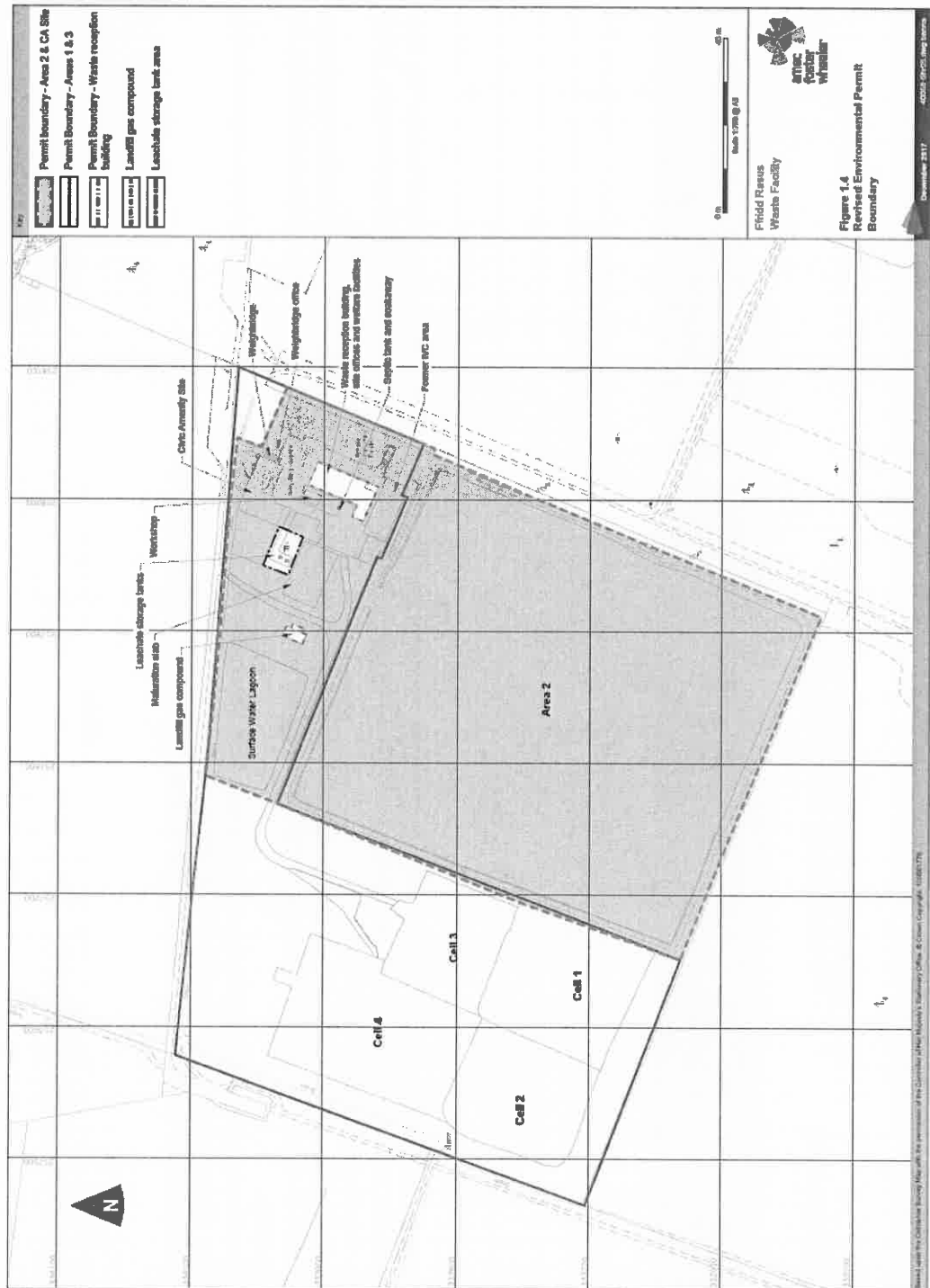
*"WEEE Directive"* means Directive 2012/19/EU of the European Parliament and of the Council of 4th July 2012 on waste electrical and electronic equipment (WEEE).

*"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.

# Schedule 7 - Site plan



© Crown Copyright and database right 2018. Ordnance Survey licence number 100019741.

END OF PERMIT

Permit Number: PP3294FJ

Facility: Fridd Rasus Landfill (Area 2)

Operator: Gwynedd County Council

Form Number: Water1/ 21/05/13

Reporting of emissions to water (other than to sewer) and land for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance /Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... Date.....  
(Authorised to sign as representative of Operator)



Permit Number: PP3294FJ

Facility: Fridd Rasmus Landfill (Area 2)

Operator: Gwynedd County Council

Form Number: Leachate 1 / 21/05/13

Reporting of leachate monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Compliance limit	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... Date.....  
(Authorised to sign as representative of Operator)

Permit Number: PP3294FJ  
Facility: Fridd Rasus Landfill

Operator: Gwynedd County Council  
Form Number: Groundwater1 / 21/05/13

Reporting of groundwater monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... Date.....  
(Authorised to sign as representative of Operator)

Permit Number: PP3294FJ  
Facility: Fridd Rasmus Landfill

Operator: Gwynedd County Council  
Form Number: LFG1 / 21/05/13

Reporting of landfill gas monitoring for the period from DD/MM/YYYY to DD/MM/YYYY

Monitoring Point	Substance / Parameter	Compliance limit	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... Date.....  
(Authorised to sign as representative of Operator)

Permit Number: PP3294FJ  
Facility: Fridd Rasus Landfill

Operator: Gwynedd County Council  
Form Number: Air1 / 21/05/13

Reporting of emissions to air for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... Date.....  
(Authorised to sign as representative of Operator)



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

## **Permit with introductory note**

The Environmental Permitting (England & Wales) Regulations 2010

---

**Gwynedd Council**

**Ffridd Rasus Landfill Areas 1 & 3  
Morfa Road  
Harlech  
Gwynedd  
LL46 2UW**

**Permit number**

**EPR/GP3330BY**

# Ffridd Rasus Landfill Areas 1 & 3

## Permit number EPR/GP3330BY

### Introductory note

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

The main features of the permit are as follows.

Ffridd Rasus landfill site ceased accepting waste for disposal on 6<sup>th</sup> January 2014. Capping was completed on 2<sup>nd</sup> April 2014. The conditions of this permit reflect that the landfill site will now be operated and maintained in accordance with the agreed closure plan during the aftercare phase.

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
Application GP3330BY	Received 8/11/2004	
Request to extend determination	Requested 24/05/2005	Response 06/06/2005
Response to Schedule 4 Notice	Requested 04/07/2005	Response 10/08/2005
Response to request for information	Requested 04/07/2005	Response 21/07/2005
Revised Surface water management plan	Requested 10/08/2005	Plan 9/08/2005
Request to extend determination	Requested 30/09/2005	Response 04/10/2005
Permit GP3330BY determined	31/10/2005	
Variation notice QP3134LY issued (variation & consolidation)	14/03/2007	
Application EPR/GP3330BY/V003	Duly made 22/7/2011	Application for increase in annual throughput to 49,000 tonnes.
Additional information received	16/08/2011	Confirmation of landfill stability and management system update
Variation determined EPR/GP3330BY/V003	18/08/2011	Varied permit issued
Agency variation determined EPR/GP3330BY/V004	21/03/13	Agency variation to implement the changes introduced by IED
Variation Application EPR/GP3330BY/V005 received	01/12/14	Variation application to place landfill into closure and aftercare
Request for further information	13/03/14	Request for 6 yearly Hydrogeological Risk Assessment Review
Schedule 5 Notice	26/10/15	Request for further information relating to Groundwater Compliance Limits
Response to Schedule 5 Notice	26/11/15	
Variation Application EPR/GP3330BY/V005 issued		Consolidated permit issued to incorporate closure and aftercare requirements.

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number  
**EPR/GP3330BY**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/GP3330BY/V005 authorising,


**Gwynedd Council** ("the operator"),  
of

**Council Offices**  
**Caernarfon**  
**Gwynedd**  
**LL55 1SH**

to operate an installation at

**Ffridd Rasus Landfill Areas 1 & 3**  
**Morfa Road**  
**Harlech**  
**Gwynedd**  
**LL46 2UW**

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

Name	Date
	<b>01 April 2016</b>

**Eirian Macdonald**

Authorised on behalf of Natural Resources Wales

Permit Number EPR/GP3330BY

# Conditions

## 1. Management

### 1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
  - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

### 1.2 Finance

- 1.2.1 The financial provision for meeting the obligations under this permit set out in the agreement made between the operator and the Environment Agency and since adopted by Natural Resources Wales dated 31<sup>st</sup> October 2005 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.

## 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.

## **2.4 Landfill Engineering**

- 2.4.1 No construction of landfill infrastructure shall commence until the operator has submitted relevant construction proposals or a written request to use previous construction proposals and Natural Resources Wales has confirmed that it is satisfied with the construction proposals.
- 2.4.2 The construction of the landfill infrastructure shall take place only in accordance with the approved construction proposals unless:
  - (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
  - (b) a change has otherwise been agreed in writing by Natural Resources Wales.
- 2.4.3 The operator shall submit a CQA Validation Report as soon as practicable following the construction of the landfill infrastructure.
- 2.4.4 Where pollution controls are immediately necessary to prevent an incident or accident, then conditions 2.5.1 and 2.5.2 do not apply and the relevant landfill infrastructure may be constructed, provided that the construction proposals are submitted to Natural Resources Wales as soon as practicable.
- 2.4.5 For the purpose of conditions 2.5.1, Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the relevant construction proposals or CQA Validation Report, either:
  - (a) confirmed whether or not it is satisfied; or
  - (b) informed the operator that it requires further information.
- 2.4.6 Where Natural Resources Wales has required further information under condition 2.5.5(b), Natural Resources Wales shall be deemed to be satisfied where it has not, within the period of four weeks from the date of receipt of the further information, either:
  - (a) confirmed whether or not it is satisfied; or
  - (b) informed the operator that it requires further information.

## **2.5 Waste acceptance**

- 2.5.1 No waste shall be accepted for disposal at the site.

## **2.6 Leachate levels**

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

## **2.7 Closure and aftercare**

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

## **2.8 Landfill Gas Management**

- 2.8.1 The operator shall take appropriate measures, including, but not limited to, those specified in any approved landfill gas management plan, to:
- (a) collect landfill gas; and
  - (b) control the migration of landfill gas.
- 2.8.2 The operator shall use the collected landfill gas to produce energy. If the collected landfill gas cannot be used to produce energy, the operator shall flare or otherwise treat the gas.
- 2.8.3 The operator shall:
- (a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a revised landfill gas management plan;
  - (b) implement the revised landfill gas management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

# **3 Emissions and monitoring**

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

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 The limits given in Table S3.2 shall not be exceeded, save that compliance with an emission limit in that table shall include incorporation of the uncertainty allowance stated in Environment Agency guidance LFTGN 05 and LFTGN 08.
- 3.1.4 There shall be no emission from the activities into groundwater of any hazardous substances contrary to the EP Regulations.
- 3.1.5 There shall be no emission from the activities into groundwater of any non-hazardous pollutants so as to cause pollution.
- 3.1.6 The compliance limits for emissions into groundwater for the parameters and monitoring points set out in schedule 3 table S3.4 (or as otherwise agreed in writing in accordance with annual monitoring report to be carried out in accordance with condition 4.2.1 (b)) shall not be exceeded
- 3.1.7 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.

- 3.1.8 The limits for landfill gas arising from the installation set out in schedule 3, tables S3.5 shall not be exceeded.

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

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
  - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

## **3.3 Odour**

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
  - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

### **3.4 Noise and vibration**

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
  - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

### **3.5 Monitoring**

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring and any other actions specified in the following tables in schedule 3 to this permit:
- (a) Leachate specified in tables S3.1 and S3.8;
  - (b) Point source emissions specified in tables S3.2 and S3.3;
  - (c) Groundwater specified in tables S3.4 and S3.9;
  - (d) Landfill gas specified in tables S3.5, S3.6 and S3.7;
  - (e) Surface water specified in table S3.10.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 A topographical survey of the site referenced to ordnance datum shall be carried out:
- (a) annually, and
  - (b) 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 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) sub-surface landfill gas monitoring;
  - (v) leachate levels, quality and quantities;
  - (vi) landfill gas generation and collection;
  - (vii) waste types and quantities;
  - (viii) the location of hazardous waste deposits; and
  - (ix) the specification and as built drawings of the basal, sidewall and capping engineering systems.

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

### 4.2 Reporting

4.2.1 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 reports 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) a review and where appropriate, revision of the groundwater compliance limits set in Table S3.4 shall be carried out as part of the annual monitoring report;
- (c) the energy consumed at the site, reported in the format set out in schedule 4 table S4.3
- (d) the annual production/treatment set out in schedule 4 table S4.2;
- (e) the topographical surveys required by condition 3.5.3 other than those submitted as part of a CQA validation report;

- (f) an assessment of the settlement behaviour of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
  - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

### 4.3 Notifications

- 4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
- (i) inform Natural Resources Wales,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

## **4.4 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**

<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity</b>
S5.2 A1 (a) The Disposal of waste in a landfill	Landfill for non-hazardous waste (D5 –Specially engineered landfill). Landfill is closed and not accepting waste.	Management and Monitoring of emissions of closed landfill (including leachate and landfill gas)
<b>Directly Associated Activity</b>		
Leachate Management	Storage of leachate	Leachate arising from the Permitted landfill.
Flaring of landfill gas	Flaring of landfill gas in an appliance for disposal	Landfill gas arising from the landfill
Water discharges to controlled waters	Discharge of site drainage from Area 1.	Drainage from hardstanding in Area 1 to point of entry to controlled waters.
Fuel Storage	Storage of fuel	Fuel for operation of plant and equipment required to operate the landfill.



**Table S1.2 Operating techniques**

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The response to questions 2.1, 2.2, 2.3, 2.4, 2.5, 2.7, 2.8, 2.9, and 2.11 of Part B of the Landfill Application Form excluding the answers to the following questions: 2.1.5, 2.2.16, 2.2.17, 2.2.46, 2.2.47, 2.2.49, 2.2.50, 2.2.53 and 2.2.57.	8/11/2004
Pulveriser Application	The responses to all questions in Part B of the Pulveriser Application Form	8/11/2004
Response to Schedule 4 Notice Dated 4/07/2005	All parts of letter and enclosures	10/8/2005
Response to letter requesting further information dated 04/07/2005	All parts of letter and enclosures excluding revised drawings and revised surface water management plan.	21/07/2005
Revised Surface Water Management Plan	All parts of letter and enclosures.	Letter dated 10/08/2005
Letter containing proposals meeting the requirements of improvement condition 1.4.1.1 (original permit) – dated 10/08/2006	All parts including plan (Figure 1)	Received 11/08/2006
Variation application EPR/GP3330BY/V0 03	Response to form C2, questions 1b, 2b and 5c: 28587N202 technical note and 28587N202 Annex A Non Technical Summary	22/07/2011
	Email about stability and management systems.	16/08/2011
Closure report	All	01/12/14
Hydrogeological Risk Assessment Review	All	04/06/15
Schedule 5 Response	All	26/10/15

## **Schedule 2 - List of permitted wastes**

No waste accepted for disposal

## Schedule 3 – Emissions and monitoring

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

Monitoring point reference/ Description	Limit	Monitoring frequency	Monitoring method
LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	1.5 m above cell base	Quarterly	As per LFTGN 02, February 2003

**Table S3.2 Point source emissions to air – emission limits and monitoring requirements**

Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
Landfill Gas Flare	Oxides of Nitrogen	Gas utilisation plant	150 mg/m <sup>3</sup>	Hourly mean	Annual	As per LFTGN 05 'Guidance for monitoring enclosed landfill gas flares' unless otherwise agreed in writing with NRW.
	CO	Gas utilisation plant	50 mg/m <sup>3</sup>	Hourly mean		
	Total VOCs	Gas utilisation plant	10 mg/m <sup>3</sup>	Hourly mean		

**Table S3.3 Point source emissions to water (other than sewer) – emission limits and monitoring requirements**

<b>Emission point Ref. &amp; Location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl unit)</b>	<b>Reference Period</b>	<b>Monitoring Frequency</b>	<b>Monitoring Standard or Method</b>
Emission point marked 'Discharge point from oil/petrol interceptor' on drawing number HRA02 (August 2005) - monitoring point SW1	oil and grease	Site Drainage from Area 1 via interceptor	None visible	Spot Sample	6 monthly	Visual

Table S3.4 Trigger levels for emissions into groundwater and monitoring requirements

Monitoring point reference	Parameter	Limit (Including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
BH19A	Chloride	Suspended <sup>1</sup>		Quarterly	As per LFTGN 02, February 2003 unless otherwise agreed in writing with NRW.
BH19B		Suspended			
BH19C		Suspended			
BH20A		450 mg/l			
BH20B		400 mg/l			
BH21A		320 mg/l			
BH21B		250 mg/l			
BH29		19.8 mg/l			
BH30		340 mg/l			
BH31		130 mg/l			
BH19A	Ammoniacal Nitrogen	3.6 mg/l		Quarterly	
BH19B		1.5 mg/l			
BH19C		3 mg/l			
BH20A		85 mg/l			
BH20B		259 mg/l			
BH21A		150 mg/l			
BH21B		80 mg/l			
BH29		19.8 mg/l			
BH30		190 mg/l			
BH31		100 mg/l			
BH19A, BH19B BH19C, BH20A BH20B, BH21A BH21B, BH29 BH30, BH31	Cadmium	3 µg/l		6-monthly	
BH19A, BH19B BH19C, BH20A BH20B BH21A BH21B BH29 BH30 BH31	Naphthalene	2 µg/l		6-monthly	

<sup>1</sup> Chloride limit suspended pending the results of additional annual monitoring as required under condition 4.2.1 (b)

**Table S3.5 Landfill gas in external monitoring boreholes – limits and monitoring requirements**

Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
Peripheral gas monitoring boreholes BHG01	Methane	1%v/v	Six monthly	As per LFTGN 07 V2 2010, unless otherwise agreed in writing with NRW.
	Carbon Dioxide	1.5 %v/v		
Peripheral gas monitoring boreholes BHG02	Methane	1 %v/v	Six monthly	
	Carbon Dioxide	1.6%v/v		
Peripheral gas monitoring boreholes BHG03	Methane	1 %v/v	Six monthly	
	Carbon Dioxide	5.1 %v/v		
Peripheral gas monitoring boreholes BHG04	Methane	14.8%v/v	Six monthly	
	Carbon Dioxide	11.1%v/v		

**Table S3.6 Landfill gas from capped surfaces – limits and monitoring requirements**

<b>Monitoring point Ref. /description</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Monitoring frequency</b>	<b>Monitoring Standard or method</b>
Permanently capped zone	Average methane flux and total methane emission	Average zone emission rate of 0.001 mg/m <sup>2</sup> /second	Annually	As per LFTGN 07 V2 2010, unless otherwise agreed in writing with NRW.

**If a cap has previously been shown compliant and there have been no significant physical changes in the gas management during the year, a detailed walkover survey with an FID can be used to demonstrate that the surface emissions are under control. If this survey shows no change in the pattern of methane emission, it may be used as the annual survey. The values for flux and total methane emissions measured in the previous year may be reported and a fresh flux box survey is not necessary. If the zone remains stable, the results of a full walkover survey may be accepted as the site report for a period of four years before a further quantitative flux box survey is required.**

**Table S3.7 Landfill gas – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
In waste monitoring boreholes	Methane	Six Monthly	As per LFTGN 07 V2 2010, unless otherwise agreed in writing with NRW.
	Carbon Dioxide		
	Oxygen		
	Carbon Monoxide		
	Hydrogen sulphide		
	Atmospheric pressure		
	Differential pressure		
	Meteorological Data		
Input to LFG Utilisation Compound	Trace gas analysis in accordance with LFTGN04	Annually	As per LFTGN 04 V3 2010, unless otherwise agreed in writing with NRW.

**Table S3.8 Leachate– other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	Level	Quarterly	As per LFTGN02, February 2003, unless otherwise agreed in writing with NRW.
LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	pH, EC, NH <sub>4</sub> -N, TON, TOC, BOD, COD, Ca, Mg, K, Na, Cd, Alk, SO <sub>4</sub> , Phenol, Napthalene, mecoprop, toluene.	6-Monthly	
LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	As six monthly plus: Fe, Pb, Mn, Ni, Zn and Hazardous substance screen	Annually	

**Table S3.9 Groundwater – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
BH1, BH15, BH18A, BH18B, BH19A, BH19B, BH19C, BH20A, BH20B, BH21A, BH21B, BH23, BH24, BH27-BH36 and NRA3	Water level, pH, Cl, EC, NH <sub>4</sub> -N, Do	Quarterly	As per LFTGN02, February 2003, unless otherwise agreed in writing with NRW.
BH1, BH15, BH18A, BH18B, BH19A, BH19B, BH19C, BH20A, BH20B, BH21A, BH21B, BH23, BH24, BH27-BH36 and NRA3	Water level, pH, Cl, EC, NH <sub>4</sub> -N, Do, Ca, Mg, K, Na, Cd, Alk, TOC, SO <sub>4</sub> , TON phenol and Napthalene	Six-monthly	
BH1, BH15, BH18A, BH18B, BH19A, BH19B, BH19C, BH20A, BH20B, BH21A, BH21B, BH23, BH24, BH27-BH36 and NRA3	Water level, pH, Cl, EC, NH <sub>4</sub> -N, Do, Ca, Mg, K, Na, Cd, Alk, TOC, SO <sub>4</sub> , TON, phenol, napthalene, Cr, Cu, Fe, Pb, Mn, Ni, Zn	Annually	

**Table S3.10 Surface water – other monitoring requirements**

<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
Monitoring points SW1, SW2 and SW3 as shown on drawing HRA02 (August 2005)	pH,	6-monthly	As per LFTGN 02, February 2003, unless otherwise agreed in writing with NRW.
	Temperature,		
	EC		
	DO (field)		
	DO (laboratory)		
	COD		
	NH4		
	Cl		



## 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		Period begins
Leachate levels As required by condition 3.5.1	LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	Every 12 months	1 January
Emissions to air Parameters as required by condition 3.5.1	Landfill Gas Flare	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1	SW1, SW2, SW3	Every 12 months	1 January
Groundwater Parameters as required by condition 3.5.1	BH1, BH15, BH18A, BH18B, BH19A, BH19B, BH19C, BH20A, BH20B, BH21A, BH21B, BH23, BH24, BH27-BH36 and NRA3	Every 6 months	1 January, 1 July,
	BH1, BH15, BH18A, BH18B, BH19A, BH19B, BH19C, BH20A, BH20B, BH21A, BH21B, BH23, BH24, BH27-BH36 and NRA3	Every 12 months	1 January
Landfill gas surface emissions Parameters as required by condition 3.5.1	Permanently capped zone	Every 12 months	1 January
Landfill gas lateral migration Parameters as required by condition 3.5.1	BHG01 – BHG04	Every 12 months	1 January
Other Landfill gas monitoring Parameters as required by condition 3.5.1	In waste monitoring boreholes	Every 12 months	1 January
	Landfill Surface	Every 12 months	1 January
	Input to LFG Utilisation Compound		
	Landfill gas flare		
Other leachate monitoring Parameters as required by condition 3.5.1	LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	Every 12 months	1 January
Hazardous substance Screen	LCP1, LCP2, LCP3, LCP4/2, and LCP4/B	Every 12 months	1 January
Annual review of HRA as required by condition 4.2.1 (b).		Every 12 months	1 January

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

<b>Leachate:</b>	<b>Cubic metres/year</b>
------------------	--------------------------

<b>Disposed of off site;</b>	
------------------------------	--

<b>Disposed of to any onsite effluent treatment plant;</b>	
--	--

<b>Recirculated into the waste mass.</b>	
--	--

<b>Surface water and/ or groundwater:</b>	<b>Cubic metres/year</b>
---	--------------------------

<b>Disposed of off site;</b>	
------------------------------	--

<b>Disposed of to any onsite effluent treatment plant.</b>	
--	--

<b>Landfill gas:</b>	<b>Normalised cubic metres/year</b>
----------------------	-------------------------------------

<b>combustion in flares;</b>	
------------------------------	--

<b>combustion in gas engines;</b>	
-----------------------------------	--

<b>Other methods of gas utilisation.</b>	
--	--

**Table S4.3 Performance Parameters**

Parameter	Frequency of assessment	Annual total	Unit
Energy used (including for leachate treatment)	Annually		MWh of electricity

**Table S4.4 Reporting Forms**

Media/parameter	Reporting Format	Date of Form
Leachate	Form leachate 1 or other reporting format to be agreed in writing with Natural Resources Wales	14/03/07
Air	Form Air 1 or other reporting format to be agreed in writing with Natural Resources Wales	14/03/07
Controlled water	Form Water 1 or other reporting format to be agreed in writing with Natural Resources Wales	14/03/07
Groundwater	Form Groundwater 1 or other reporting format to be agreed in writing with Natural Resources Wales	14/03/07
Sewer	Form Sewer 1 or other reporting format to be agreed in writing with Natural Resources Wales	14/03/07
Landfill gas	Form LFG 1 or other reporting format to be agreed in writing with Natural Resources Wales	14/03/07
Particulate matter	Form Particulate 1 or other reporting format to be agreed in writing with Natural Resources Wales	14/03/07
Landfill topographical surveys and interpretation	Reporting format to be agreed in writing with Natural Resources Wales	

## 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	

<b>(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment</b>	
<b>To be notified Immediately</b>	
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>(b) Notification requirements for the breach of a permit condition</b>	
<b>To be notified immediately</b>	
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

<b>(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:</b>	
<b>To be notified immediately</b>	
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.	

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

\* authorised to sign on behalf of the operator

## Schedule 6 - Interpretation

*"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.

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

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

*"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 Landfill Infrastructure.

*"CQA Validation Report"* means the final "as built" construction and engineering details 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 Landfill Infrastructure;
- Validation by a qualified person that all of the construction has been carried out in accordance with the Construction Proposals.

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

- permanent capping;
- 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.

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

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

*"LFTGN 07"* means Environment Agency Guidance on monitoring landfill gas surface emissions.

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

*"M2"* means Environment Agency Guidance Monitoring of stack emissions to air.

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

- groundwater under-drainage system;
- permanent geophysical leak location system;
- leak detection layer;
- sub-grade;
- barriers;
- liners;
- leachate collection system;
- leachate abstraction system;
- separation bund/layer;
- cell or area surface water drainage system;
- side wall subgrade and containment systems;

for the New Cell.

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

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

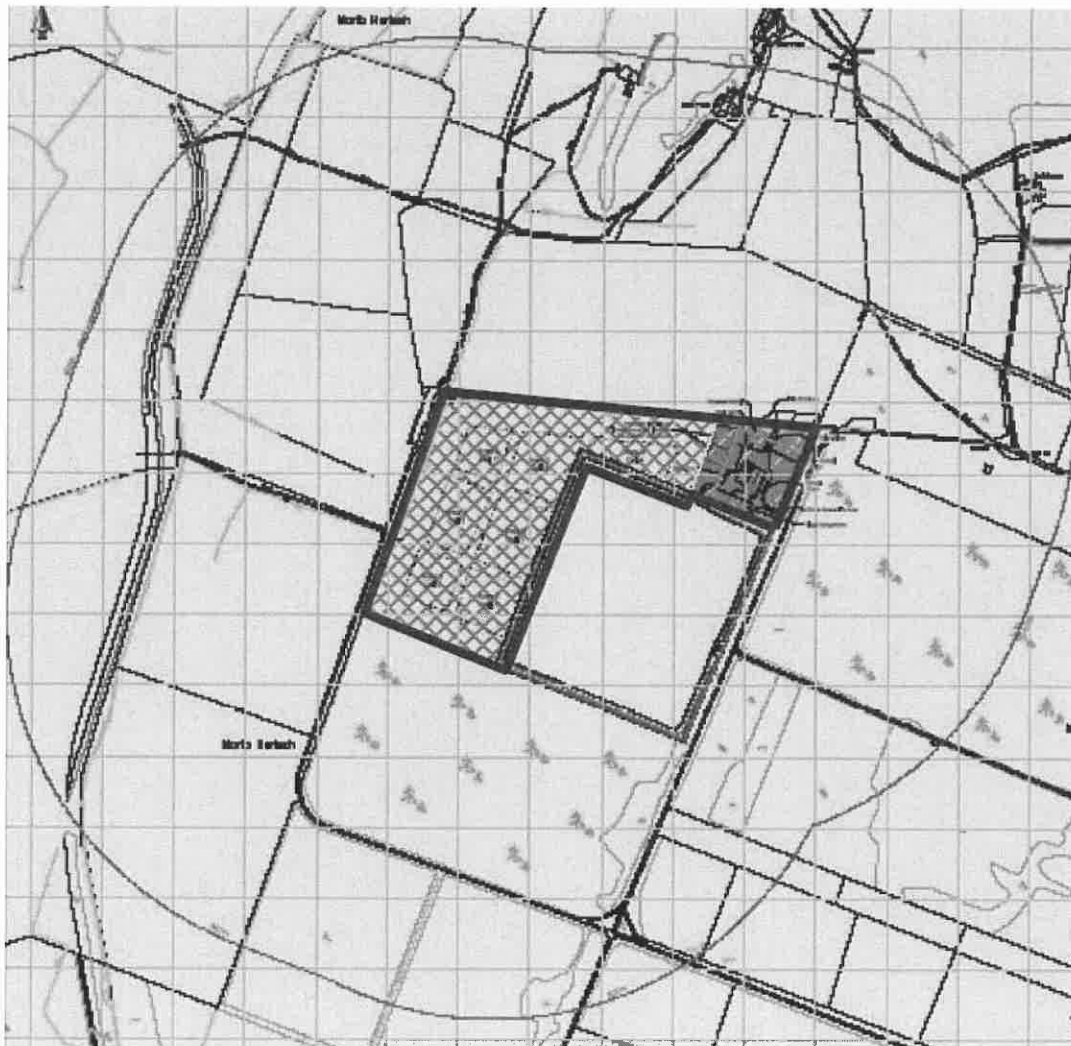
*"Waste code"* means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the 'List of Wastes Decision') and in relation to hazardous waste, includes the asterisk.

*"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 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.

## Schedule 7 - Site plan



© Crown Copyright and database right 2016. Ordnance Survey licence number 100019741.

END OF PERMIT







**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

Ein cyf/Our ref: GP3330BY/V006  
Eich cyf/Your ref:

Chester Road, Buckley, Flintshire,  
CH7 3AJ

Ebost/Email:  
stuart.ross@cyfoethnaturiolcymru.gov.uk  
Ffôn/Phone: 03000 65 3915

Susan Francis  
Gwynedd Council  
Ffridd Rasus Landfill Areas 1 & 3  
Morfa Road  
Harlech  
Gwynedd  
LL46 2UW

21/11/18

**Re. Ffridd Rasus Landfill (Areas 1 & 3) Changes to Emissions Monitoring  
Requirements – Microturbine and Flare Emissions**

I am writing further to your email of 02/10/18 and the request therein to alter the emissions monitoring requirements for the landfill gas microturbine and flare at the above site.

We have considered your proposal and in accordance with permit condition 3.5.1, agree to the suspension of the existing emissions monitoring requirements for the turbine as detailed in Table S3.2.

As an alternative to annual extractive monitoring the microturbine combustion temperature shall be monitored to ensure and demonstrate that optimal combustion conditions are achieved as referenced in Newenco's January 2018 document titled 'Capstone Microturbine Emissions'.

Emissions monitoring of the internal flare shall be completed when usage (operational hours) is in excess of 10% of the available hours over the calendar year.

Within your annual report (condition 4.2.1), please include a statement to confirm the operational hours of the flare and a summary of the microturbine performance over the calendar year.

If you would like to discuss any the above matters, then please do not hesitate to contact me.

Yours sincerely

Stuart Ross  
Regulatory Officer – Industry Regulation Team

