

# Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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**Hazrem Environmental Limited**

**Nine Mile Point Waste Transfer Facility  
Nine Mile Point Industrial Estate  
Cwmfelinfach  
Caerphilly  
NP11 7HZ**

Variation number

**EPR/AB3695CH/V002**

Permit number

**EPR/AB3695CH**

# Nine Mile Point Waste Transfer Facility

## Permit number EPR/AB3695CH

### Introductory note

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

The main features of the permit are as follows.

This permit allows the operation of a waste processing facility (installation) to produce Solid Recovered Fuel (SRF) and Refuse Derived Fuel (RDF). The installation can accept up to 100,000 tonnes per annum of non-hazardous household, commercial and industrial waste. Waste will be delivered by sheeted containers/skips to the waste reception area where it will be stored for up to 24 hours prior to processing. Treatment consists of sorting and segregation to separate recyclables. The remaining waste is then loaded into a primary shredder followed by screening to separate out fines. It will then pass through an over band magnet, eddy current separator's and a near infrared optical sorter to remove recyclables such as non-ferrous and ferrous metals and plastics such as PVC. The remaining waste will then undergo further shredding before being transferred to the drum dryer where it will be heated to 80°C. Releases to air from the drying of waste will be treated using a natural gas fired Regenerative Thermal Oxidiser to destroy potential odours, prior to release via an 18m stack. Once dried the waste is baled and wrapped. The baled waste is stored externally on impermeable surface.

The installation will also be served with an impermeable surface and sealed drainage system to contain potential fugitive aqueous emissions. Surface water drainage and clean run-off from roof areas will be discharged via full retention interceptors to storage crates, from where it will be released to the existing surface water drains on the industrial estate. Foul drainage from the reception building will be discharged to sewer under a trade effluent consent from Dŵr Cymru.

The installation is centred at NGR ST 19235 91305 and is located just off the B4251 between the villages of Wattsville and Cwmfelinfach, approximately 5 km North East of Caerphilly. The installation occupies an area of approximately 1.09 hectares within Nine Mile Point Industrial Estate and is located towards the bottom of a steep sided valley with mountains comprising agricultural land to the south and woodland to the north. The Sirhowy River is located approximately 60 metres away from the installation. The nearest residential properties are on New Road, approximately 470 metres northeast of the eastern edge of the installation boundary and William Street, approximately 480 metres west of the installation.

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 received	Duly made 31/11/15	Application for waste processing facility producing Solid Recovered Fuel and Refused Derived Fuels from waste.

Additional information received	10/03/16	Schedule 5 response which included revised Operating techniques, monitoring plan, Fire Management Plan and Accident Management Plan. Response to question 3 detailing odour control in the event of Regenerative Thermal Oxidiser (RTO) failure. Response to question 6 detailing control measures in the event of receipt of highly odorous waste. Response to question 7 detailing odour control in the event of plant failure. Response to question 13 detailing how negative pressure will be maintained when doors are open.
Additional information received	20/04/16	Schedule 5 response which included revised Operating techniques, monitoring plan, Fire Management Plan and Accident Management Plant. Response to question 3 detailing odour control in the event of Regenerative Thermal Oxidiser (RTO) failure. Response to question 7 detailing odour control in the event of plant failure. Response to question 13 detailing how negative pressure will be maintained when doors are open.
Additional information received	10/08/16	Applicant provided stack monitoring report from comparable site
Additional information received	12/08/16	Applicant provided detailed description of facilities, processes and dryer process description.
Additional information requested	23/09/16	2nd Schedule 5 Notice issued requesting: <ul style="list-style-type: none"> <li>• predicted concentrations of ammonia,</li> <li>• the volumetric flow rate,</li> <li>• an assessment of the fate of ammonia and other nitrogen containing gases as they are treated in the RTO</li> <li>• prediction of the concentration of NOx resulting from the burning of natural gas in the RTO</li> <li>• manufacturer's specification for the dryer.</li> </ul>

Additional information received	07/10/16	2nd Schedule 5 response. Applicants response to Schedule 5 did not provide satisfactory evidence to quantify NOx emissions
Permit refused	09/01/17	Permit refused due to potential health effect of NO <sub>2</sub> emissions
Additional information received	05/05/17	Revised technical specification from dryer manufacturer submitted as part of appeal bundle. This shows that a lower maximum emission concentration of 80 mg/m <sup>3</sup> NOx can be achieved at emission point A1.
Permit determined EPR/AB3695CH	14/12/17	Permit issued following appeal to Planning Inspectorate. NRW directed to issue permit following appeal decision dated 11/12/17.
Regulation 61 Notice sent to the Operator	04/04/19	Issue of a Notice under Regulation 61(1) of the EPR. Natural Resources Wales initiated review and variation to vary the permit following the publication of the revised Best Available Techniques (BAT) Reference Document (BRef) for Waste Treatment.
Regulation 61 Notice response	28/10/19	Response received from the operator.
Additional information received	21/01/20	Updated version of the Schedule 61 Notice response with the additional information as required by the request for information dated 16/01/20
NRW-initiated variation determined EPR/AB3695CH/V002	23/03/21	Varied and consolidated permit issued in modern condition format.

End of introductory note

# Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

**EPR/AB3695CH**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/AB3695CH/V002 authorising

**Hazrem Environmental Limited** (“the operator”),

whose registered office is

**Fern Close**

**Pen Y Fan Industrial Estate**

**Crumlin**

**NP11 3EH**

company registration number **05064100**

to operate an installation at

**Nine Mile Point Waste Transfer Facility**

**Nine Mile Point Industrial Estate**

**Cwmfelinfach**

**Caerphilly**

**NP11 7HZ**

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

Signed	Date
Holly Noble	17/03/2021

Authorised on behalf of Natural Resources Wales

# Conditions

## 1 Management

### 1.1 General management

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

### 1.2 Energy efficiency

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

### 1.3 Efficient use of raw materials

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

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

- 1.4.1 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.

- 1.4.2 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”).
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

### **2.2 The site**

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on Figure 1 “Site Layout” at schedule 7 to this permit.

### **2.3 Operating techniques**

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

### **2.4 Improvement programme**

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by Natural Resources Wales.
- 2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

## **2.5 Pre-operational conditions**

- 2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4A have been completed.

## **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 S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, to the monitoring plan agreed in writing with Natural Resources Wales under Pre-operational measure 5, unless such monitoring is based on a systematic appraisal of the risk of contamination.

### **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.

### **3.4 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 specified in the following tables in schedule 3 to this permit:
  - (a) point source emissions specified in tables S3.1, S3.2 and S3.3.
- 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 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by Natural Resources Wales.

### **3.6 Pests**

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

### **3.7 Fire**

- 3.7.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention mitigation plan guidance.
- 3.7.2 The operator shall:
  - (a) if notified by Natural Resources Wales that the activities could cause a fire risk, submit to Natural Resources Wales a fire prevention mitigation plan which identifies and minimises the risks of fire;
  - (b) Operate the activity in accordance with the fire prevention mitigation plan, from the date of submission, unless otherwise agreed in writing by Natural Resources Wales.

## 4 Information

### 4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
  - (b) be made as soon as reasonably practicable;
  - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
  - (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
    - (i) off-site environmental effects; and
    - (ii) matters which affect the condition of the land and groundwater.
- 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 the permit including an interpretative review of that data;
  - (b) the annual production / treatment data set out in schedule 4 table S4.2; and
  - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 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 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.
- 4.2.5 Within 1 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 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
- (i) inform Natural Resources Wales,
  - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
  - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
  - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
  - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.
- Where the operator is a corporate body other than a registered company:
- (a) any change in the operator's name or address; and
  - (b) any steps taken with a view to the dissolution of the operator.
- In any other case:
- (a) the death of any of the named operators (where the operator consists of more than one named individual);
  - (b) any change in the operator's name(s) or address(es); and
  - (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
  - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

## **4.4 Interpretation**

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

# Schedule 1 - Operations

**Table S1.1 activities**

Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
S5.4 A1 (b)(ii)	<p>Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving one or more of the following activities and excluding activities covered by Council Directive 91/271/EEC –</p> <p>Pre-treatment of waste for incineration or co-incineration. Treatment of waste to produce Solid Recovered Fuel (SRF) and Refuse Derived Fuel (RDF). Waste will be sorted, shredded and passed through a drum dryer prior to baling and storage.</p> <p><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)</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 compounds</p>	<p>From receipt of waste and sorting of waste to production of Solid Recovered Fuel (SRF) and Refuse Derived Fuel (RDF).</p> <p>Bales of SRF/RDF are to be stored for a maximum period not exceeding 3 months.</p> <p>SRF to be produced in accordance with BS EN 15359: 2011.</p> <p>Treatment activities include:</p> <ul style="list-style-type: none"> <li>• Manual sorting and segregation</li> <li>• Shredding</li> <li>• Separation using over band magnet, eddy current separator and near infrared optical sorter</li> <li>• Drying using drum dryer</li> <li>• Baling and wrapping</li> </ul> <p>Waste types as specified in Table S2.1.</p>

## Directly Associated Activity

Combustion of natural gas for drying of waste to increase calorific value.	6.75 MWth Drum dryer	Includes receipt of fuel to release of emission products to air via 0.7 MWth Regenerative Thermal Oxidiser.
Storage of fuel, oils, etc. for use by plant on site.	Fuel will be stored within a double bunded 200 litre tank on a concrete pad. Oils and other potentially polluting liquids will be stored within a cage on a concrete pad with an integral bund	Includes receipt of fuel and oils and storage.

**Table S1.2 Operating techniques**

Description	Parts	Date Received
Application	Sections 3 of the application form document B3, in response to Table 3a – technical standards, Part B3 of the application form. Appendix 5 of application bundle – Specific standards for the hazardous and non-hazardous waste recovery and disposal sector.	05/10/15
Environmental Risk Assessment	All control measures	05/10/15

Table S1.2 Operating techniques			
Description		Parts	Date Received
Accident Management Plan		All parts	13/11/15
Response to Schedule 5 Notice dated 10/03/16		Response to question 3 detailing odour control in the event of Regenerative Thermal Oxidiser (RTO) failure. Response to question 6 detailing control measures in the event of receipt of highly odorous waste. Response to question 7 detailing odour control in the event of plant failure. Response to question 13 detailing how negative pressure will be maintained when doors are open.	20/04/16
Fire Prevention Plan Version 2		All parts	20/04/16
Email from applicant		Describing storage arrangements for fuel, oils and other potentially polluting liquids	25/04/16
Technical Specifications		Drying of RDF: DX-1500	05/05/17
Response to regulation 61(1) Notice – request for information dated 04/04/2019 detailing how the Operator will comply with the BAT conclusions for Waste Treatment, under Directive 2010/75/EU of the European Parliament and of the Council		All parts	28/10/19
Additional information for Regulation 61(1) Notice		All parts	21/01/20
Operating Techniques and Monitoring Plan Version 3		All parts	21/01/20
Odour Management Plan Version 2		All parts	10/07/20
Fire prevention and mitigation plan guidance – Waste Management		All relevant sections	N/A
Fire prevention and mitigation plan		All relevant sections	In line with pre-operational measure 13

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	Within 1 month of commencement of operation, the operator shall submit a copy of either an EPOC (Environmental Permitting Operators Certificate) or the Low Risk Equivalent qualification to Natural Resources Wales at the reporting address.	Within 1 month of commencement of operations
IC2	Within 3 months of commencement of normal operations, noise monitoring in accordance with BS4142:2014 shall be carried out to confirm the assumptions from the Noise Impact Assessment submitted as part of the Application. A report shall be submitted to Natural Resources Wales at the reporting address, for approval, within 6 months of operations commencing.	Within 3 months of commencement of operations
IC3	Within 12 months of commencement of operation, the operator shall submit a copy of the full COTC to Natural Resources Wales at the reporting address.	Within 12 months of commencement of operations

**Table S1.3 Improvement programme requirements**

Reference	Requirement	Date
IC4	Within 12 months of commencement of operation the Operator shall submit to Natural Resources Wales a report outlining progress towards obtaining accreditation to ISO14001. Where appropriate the report shall also include a time-tabled plan on when full accreditation would be achieved.	Within 12 months of commencement of operations

**Table S1.4 Pre-operational measures**

Reference	Pre-operational measures
1	At least one calendar month before the commencement of operation, the operator shall submit registration details of the proposed Certificate of Technical Competence (COTC) scheme.
2	At least two calendar months before the commencement of operation the operator shall submit the final site drainage plan and a proposed maintenance and survey schedule for the drainage system. This plan shall include a copy of the consent to discharge to foul sewer. Operations shall not commence until written approval has been received from Natural Resources Wales.
3	At least two calendar months prior to operations commencing the operator shall provide a final version of the Accident Management Plan to include final details of containment measures and spill kit locations in the event of accidents.
4	At least three calendar months prior to operations commencing the Operator shall supply details of the fire suppression system installed. Operations shall not commence until written approval has been received from Natural Resources Wales.
5	At least four calendar months prior to operations commencing, the Operator shall submit the written monitoring plan referenced in condition 3.1.3 for the monitoring of soil and groundwater for approval by Natural Resources Wales. The monitoring plan shall demonstrate how the Operator will meet the requirements of Articles 14(1) (b), 14(1) (e) and 16(2) of the IED. Operations shall not commence until written approval has been received from Natural Resources Wales.
6	At least four calendar months prior to operations commencing, the Operator shall submit a report on the baseline conditions of soil and groundwater at the installation. The report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for in Article 22(3) of the IED and provided in accordance with the European Commission Guidance concerning the baseline reports under Article 22(2) of Directive 2010/75/EU on industrial emissions. The report shall contain information, supplementary to that already provided in the application Site Condition Report, needed to meet the information requirements of Article 22(2) of the IED.
7	At least six calendar months prior to operations commencing, the operator shall submit to Natural Resources a written procedure describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018): <ul style="list-style-type: none"> <li>• BAT 1 (i) – (ix)</li> <li>• BAT 1 (xi)</li> <li>• BAT 1 (xii)</li> </ul>

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
8	<p>At least six calendar months prior to operations commencing, the operator shall submit to Natural Resources a written procedure describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <ul style="list-style-type: none"> <li>• BAT 2 (a) pre-acceptance procedure representative sampling to characterise composition of waste</li> <li>• BAT 2 (b) waste acceptance procedure defining the elements to be verified upon arrival of waste, the waste acceptance and rejection criteria and the sampling and analysis procedure for verification and compliance testing</li> <li>• BAT 2 (c) Implementation of a waste tracking system and inventory</li> <li>• BAT 2 (d) Output quality management system to reference the specific quality management system to which the operator has confirmed it will comply (BS EN 15358:2011)</li> </ul>
9	<p>At least six calendar months prior to operations commencing, the operator shall submit to Natural Resources Wales information in order to evidence compliance with BAT Conclusion 19 of the Waste Treatment BREF Document (EU 2018) requiring the use of one or a combination of techniques:</p> <p>(c) Impermeable surface (information on how the site complies with CIRIA 736 or an equivalent engineering standard to which the surface complies together with sign off from construction by a Certified Quality Auditor) in accordance with the requirements specified within BAT Conclusion 19 of the Waste Treatment BAT Conclusion (EU 2018)</p>
10	<p>At least six calendar months prior to operations commencing, the operator shall submit to Natural Resources a written procedure describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <ul style="list-style-type: none"> <li>• BAT 23 (a) – an energy efficiency plan for monitoring and analysing performance against indicators</li> <li>• BAT 23 (b) – energy flow information in an energy balance record showing how the energy is used throughout the process</li> </ul>
11	<p>At least six calendar months prior to operations commencing, the operator shall submit to Natural Resources a written procedure describing how they intend to meet the following BAT requirements in accordance with requirements specified within BAT Conclusion of the Waste Treatment BREF Document (EU 2018):</p> <ul style="list-style-type: none"> <li>• BAT 3 – Inventory of waste water and waste gas streams including average concentrations and load values of relevant substances (and to include analysis of PFOS and PFOA in waste water)</li> </ul>
12	<p>At least six calendar months prior to operations commencing, the operator shall submit for approval information for priority hazardous substances and any other relevant substances. The emissions monitoring for these substances should be carried out using the methods and standards described in the M18 guidance on “Monitoring of discharges to water and sewer”.</p> <p>With reference to the risk assessment guidance on the gov.uk website entitled “Surface water pollution risk assessment for your environmental permit the Operator is to carry out the following assessments:</p> <ul style="list-style-type: none"> <li>– Screening tests for priority hazardous pollutants and any other relevant priority hazardous substances.</li> <li>– For any substance which is not screened out by the screening tests you will need to carry out modelling, as described in the risk assessment guidance “Surface water pollution risk assessment for your environmental permit”.</li> </ul> <p>You must provide us with the results from the emissions monitoring, the results from the screening tests and the results from any modelling.</p>
13	<p>At least two calendar months prior to operations commencing, the operator shall submit an updated written Fire Prevention and Mitigation Plan to Natural Resources Wales.</p> <p>The Fire Prevention and Mitigation Plan must be produced in line with the standards set out in Fire Prevention and Mitigation Plan guidance – Waste Treatment.</p>



Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
14	At least two calendar months prior to operations commencing, the operator shall submit an updated version of "Figure 1: Site Layout" in Schedule 7 of this permit. The amended version must show all emissions points and the site boundary outlined in green. The site plan must ensure the emission point for S1 is suitably located within the installation boundary at the point where the emission leaves the installation.

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

Table S2.1 Permitted waste types and quantities for production of SRF/RDF		
Maximum waste throughput quantity		100, 000 tonnes per annum
Waste code	Description	
<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 01	sludges from washing and cleaning	
02 01 04	waste plastics (except packaging)	
02 01 07	wastes from forestry	
<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	
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 09	lime mud waste	
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation	
<b>04</b>	<b>WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES</b>	
<b>04 02</b>	<b>wastes from the textile industry</b>	
04 02 09	wastes from composite materials (impregnated textile, elastomer, plastomer)	
04 02 15	wastes from finishing other than those mentioned in 04 02 14	
04 02 21	wastes from unprocessed textile fibres	
04 02 22	wastes from processed textile fibres	
<b>07</b>	<b>WASTES FROM ORGANIC CHEMICAL PROCESSES</b>	
<b>07 02</b>	<b>wastes from the MFSU of plastics, synthetic rubber and man-made fibres</b>	
07 02 13	waste plastic	
<b>09</b>	<b>WASTES FROM THE PHOTOGRAPHIC INDUSTRY</b>	
<b>09 01</b>	<b>wastes from the photographic industry</b>	
09 01 08	photographic film and paper free of silver or silver compounds	
<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	
15 01 02	plastic packaging	
15 01 03	wooden packaging	
15 01 04	metallic packaging	
15 01 05	composite packaging	
15 01 06	mixed packaging	
15 01 09	textile packaging	
<b>15 02</b>	<b>absorbents, filter materials, wiping cloths and protective clothing</b>	

<b>Table S2.1 Permitted waste types and quantities for production of SRF/RDF</b>		
Maximum waste throughput quantity	100, 000 tonnes per annum	
<b>Waste code</b>	<b>Description</b>	
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	
<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 19	Plastic	
<b>17</b>	<b>CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)</b>	
<b>17 02</b>	<b>wood, glass and plastic</b>	
17 02 01	Wood	
17 02 03	Plastic	
<b>17 09</b>	<b>other construction and demolition wastes</b>	
17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	
<b>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 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>19</b>	<b>WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE</b>	
<b>19 02</b>	<b>wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>	
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	
<b>19 04</b>	<b>vitrified waste and wastes from vitrification</b>	
19 04 01	vitrified waste	
<b>19 05</b>	<b>wastes from aerobic treatment of solid wastes</b>	
19 05 01	non-composted fraction of municipal and similar wastes	
19 05 02	non-composted fraction of animal and vegetable waste	
<b>19 10</b>	<b>wastes from shredding of metal-containing wastes</b>	
19 10 04	fluff-light fraction and dust other than those mentioned in 19 10 03	
<b>19 12</b>	<b>wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified</b>	
19 12 01	paper and cardboard	
19 12 04	plastic and rubber	
19 12 07	wood other than that mentioned in 19 12 06	
19 12 08	Textiles	
19 12 10	combustible waste (refuse derived fuel)	
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	

**Table S2.1 Permitted waste types and quantities for production of SRF/RDF**

Maximum waste throughput quantity 100, 000 tonnes per annum

Waste code	Description
<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 10	Clothes
20 01 11	Textiles
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	Plastics
20 01 40	Metals
<b>20 02</b>	<b>garden and park wastes (including cemetery waste)</b>
20 02 03	other non-biodegradable wastes (solid wastes such as black bag waste, plastics)
<b>20 03</b>	<b>other municipal wastes</b>
20 03 01	mixed municipal waste (solid wastes such as black bag waste, plastics)
20 03 02	waste from markets
20 03 03	street-cleaning residues (Street Sweepings e.g. litter, glass, plastics, cans)
20 03 07	bulky waste

## Schedule 3 – Emissions and monitoring

**Table S3.1 Point source emissions to air – emission limits and monitoring requirements**

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on Figure 1: Site Layout in Schedule 7]	Waste Dryer and RTO	Oxides of Nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	80 mg/m <sup>3</sup>	Periodic (average over one hour)	Monthly	BS EN 14792
		Dust	5 mg/m <sup>3</sup>	Periodic	Every 6 months	BS EN 13284-1
		Total Volatile Organic Compound (TVOC) <sup>Note 1</sup>	30 mg/m <sup>3</sup>	Periodic (average over one hour)	Every 6 months	BS EN 12619

<sup>Note 1</sup> The BAT-AEL and monitoring only applies when organic compounds are identified as relevant in the waste gas stream, based on the inventory required by BAT 3 of the Waste Treatment BREF Document (EU 2018), to be provided in pre-operational measure 11 by the operator.

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

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
SW1 [Point SW on Figure 1: Site Layout in schedule 7] – emission to existing drainage spur to industrial estate surface water drainage channel	Site drainage from building roofs and areas not associated with waste storage and treatment	Oil and grease	None visible	Periodic	Monthly	Visual check

**Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Source</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
S1 [Point S1 on Figure 1: Site Layout in schedule 7] – release of process waste water to sewer in accordance with Dŵr Cymru Welsh Water Trade Effluent consent.	Waste water from waste processing building	To be agreed upon completion of pre-operational measure 11 and pre-operational measure 2 <sup>Note 1</sup>	To be agreed upon completion of pre-operational measure 11 and pre-operational measure 2	To be agreed upon completion of pre-operational measure 11 and pre-operational measure 2	To be agreed upon completion of pre-operational measure 11 and pre-operational measure 2	To be agreed upon completion of pre-operational measure 11 and pre-operational measure 2

Note 1: The monitoring of parameters and limits to be set are to be agreed, if substances are identified as relevant following completion of the waste water inventory required by BAT 3 of the Waste Treatment BREF Document (EU 2018), to be provided as part response to pre-operational measure 11 by the operator.

## Schedule 4 - Reporting

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

<b>Table S4.1 Reporting of monitoring data</b>			
<b>Parameter</b>	<b>Emission or monitoring point/reference</b>	<b>Reporting period</b>	<b>Period begins</b>
Emissions to air Parameters as required by condition 3.5.1.	A1	Every 3 months	1 January
Emissions to water Parameters as required by condition 3.5.1	SW1	Every 3 months	1 January
Emissions to sewer Parameters as required by condition 3.5.1	S1	To be agreed with NRW	To be agreed with NRW

<b>Table S4.2: Annual production/treatment</b>	
<b>Parameter</b>	<b>Units</b>
Solid Recovered Fuel Produced	tonnes
Refuse Derived Fuel Produced	tonnes
Total amount of waste treated	tonnes

<b>Table S4.3 Performance parameters</b>		
<b>Parameter</b>	<b>Frequency of assessment</b>	<b>Units</b>
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Generation of residues	Annually	tonnes
Generation of waste water	Annually	m <sup>3</sup>

<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	23/03/21
Water	Form water 1 or other form as agreed in writing by Natural Resources Wales	23/03/21
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	23/03/21
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	23/03/21
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	23/03/21
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	23/03/21

**Table S4.4 Reporting forms**

Media/parameter			Reporting format	Date of form
Waste	Subject	to	Waste tonnage return form from the Environment Agency website or other form as agreed in writing by Natural Resources Wales	N/A
Conditions 4.2.5				



## 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	

<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 within 24 hours of detection</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 within 24 hours of detection</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 within 24 hours of detection</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 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.

*“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.

*“best available treatment, recovery and recycling techniques”* shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled “Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRR) and Treatment of Waste Electrical and Electronic Equipment (WEEE).

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

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

*“emissions to land”* includes emissions to groundwater.

*“EP Regulations”* means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

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

*“hazardous property”* has the meaning in Annex III of the Waste Framework Directive

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

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

*“Industrial Emissions Directive”* means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

*“MCERTS”* means the Environment Agency’s Monitoring Certification Scheme.

*“Pests”* means Birds, Vermin and Insects.

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

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

*‘residue’* means the solid waste generated by the waste treatment activity and is not directly related to the type of waste treated in the plant

“*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.

“*Waste Treatment BAT Conclusions*” means the BAT Conclusions for the Waste Treatment sector published as a Commission Implementing Decision EU 2018/1447 in the Official Journal of the EU on 17 August 2018

“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:

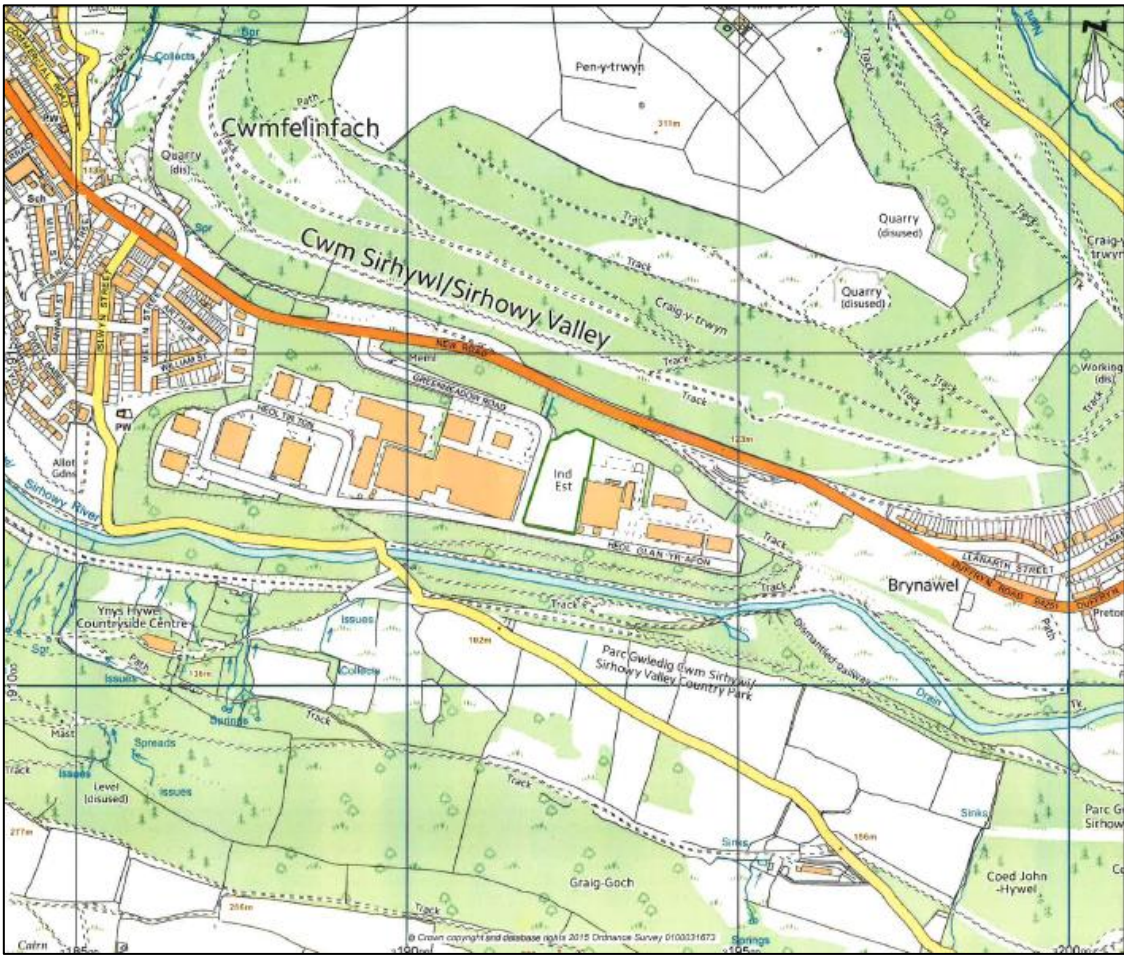
- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

# Schedule 7 - Site plan

Figure 1: Site Layout



Figure 2: Site Location



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END OF PERMIT

Permit Number   EPR/AB3695CH