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Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

FCC Recycling (UK) Limited

**Phase 2 – Wrexham Recycling Park
Bryn Lane
Wrexham Industrial Estate
Wrexham
LL13 9UT**

Permit number

EPR/BB3436RA

Phase 2 – Wrexham Recycling Park

Permit number EPR/BB3436RA

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

Mechanical Biological Treatment Facility

This permit allows the operator to operate a non-hazardous Mechanical Biological (aerobic) Treatment (MBT) facility with an annual throughput of 64,000 tonnes. Permitted wastes include mixed municipal wastes that are subjected to biological treatment consisting of aerobic composting or bio-drying, heat treatment, physical treatment including screening, crushing, baling or shredding, and pelletising for the purpose of recovery.

Road Sweeping Processing Facility

Solid road sweeping waste only is to be accepted and passed through wet screening equipment removing the grit and aggregate fractions. These fractions will then be reused as building materials. The remaining organic and solids will be recycled off site or disposed. Dirty water from the process will be discharged to sewer or removed from site by tanker to be disposed of at a suitable facility. The annual throughput will be 6,000 tonnes.

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/BB3436RA/A001	Duly Made 06/02/2012	Application for a mechanical Biological Treatment Facility and road sweepings processing facility.
Permit determined	18/04/2012	Permit issued to Waste Recycling Limited.
Application EPR/BB3436RA/V002 (variation and consolidation)	Duly Made 19/06/2015	Variation and consolidation to include a listed activity following the implementation of the Industrial Emissions Directive.
Variation determined EPR/BB3436RA/V002	10/12/2015	Varied and consolidated permit issued in modern condition format.

Status log of the permit

Description	Date	Comments
Regulation 61 Notice sent to the operator	05/04/2019	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	26/09/2019	Response received from the operator.
Additional information received	18/06/2020	Further additional information received from request for information (RFI).
Variation determined EPR/BB3436RA/V003	11/06/2021	Updated and consolidated permit issued to FCC Recycling (UK) Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BB3436RA

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BB3436RA/V003 authorising,

FCC Recycling (UK) Limited (“the operator”),

whose registered office is

**Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
NN4 7RG**

company registration number 02674166

to operate an installation at

**Phase 2 – Wrexham Recycling Park
Bryn Lane
Wrexham Industrial Estate
Wrexham
LL13 9UT**

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

Name	Date
Holly Noble	11/06/2021

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 For the following activities referenced in schedule 1, table S1.1 (A1 to A3) 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 For the following activities referenced in schedule 1, table S1.1 (A1 to A3) 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 For the following activities referenced in schedule 1, table S1.1 (A1 to A3) 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 the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1
 - (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
 - (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 tables S2.1 and S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 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.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 table S3.1, 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, 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.
- 3.3.2 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 specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1, S3.2;
 - (b) process monitoring specified in table S3.3; and
 - (c) bioaerosol monitoring specified in table S3.4.
- 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 and the environmental or other monitoring 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 pest's management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;
 - (b) implement the pest's 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 and 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 and mitigation plan which identifies and minimises the risks of fire;
 - (b) Operate the activity in accordance with the fire prevention and 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 interpretive 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 For the following activities referenced in schedule 1, table S1.1 (A1 to A3):
- (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 For the following activities referenced in schedule 1, table S1.1 (A4) 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.

4.3.4 Any information provided under condition 4.3.3 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.5 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.

4.3.6 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.

- 4.3.7 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.
- 4.3.8 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 “without delay”, in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities

Activity reference	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
A1	S5.4A(1)(b)(i) 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: (i) Biological Treatment.	<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents.</p> <p>R4: Recycling/reclamation of metals and metal compounds.</p> <p>R5: Recycling/reclamation of other inorganic compounds.</p> <p>D8: Biological treatment resulting in final compounds or mixtures which are discarded by any of the operations number D1 to D12.</p> <p>D9: Physico-chemical treatment resulting in final compounds or mixtures which are by any operations numbered D1 to D2 e.g. evaporation, drying, calcination.</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>Storage of all wastes shall be on an impermeable surface with sealed drainage.</p> <p>Treatment operations shall be limited to:</p> <ol style="list-style-type: none"> 1. Biological treatment consisting of aerobic composting or bio-drying for the purpose of recovery. 2. Heat treatment of waste for the purpose of recovery. 3. Physical treatment including screening, crushing, baling, shredding and pelletising for the purpose of recovery. <p>Treatment of all wastes shall be on an impermeable surface with sealed drainage.</p> <p>All biological or heat treatment shall take place within a building under negative pressure. Air extraction systems shall be fitted with a bio filter or other proven technology.</p> <p>Waste types as specified in Table S2.1 only.</p> <p>Notwithstanding the waste types permitted in Table S2.1 wastes which have any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> - hazardous wastes; and - wastes consisting solely or mainly of dusts or powders.

Directly Associated Activity			
A2	Mechanical Treatment of waste (pre-treatment).	<p>Mechanical treatment of non-hazardous waste.</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).</p> <p>R5: Recycling/reclamation of other inorganic materials.</p> <p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p>	<p>Physical treatment including manual sorting, screening, crushing, baling, shredding and pelletising for the purpose of recovery.</p> <p>Waste types specified in Table S2.1.</p> <p>All activities shall take place within a building under negative pressure.</p>
A3	Storage and discharge of leachate	Collection and storage of contaminated leachates from internal storage and treatment areas pending discharge to sewer or tankered off site.	Temporary storage of leachate from bio-drying tunnels pending discharge to sewer or tankered off site.
Description of activities for waste operations		Limits of activities	
A4	Road Sweeping Processing Facility	<p>R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents.</p> <p>R5: Recycling/reclamation of other inorganic compounds.</p>	<p>Storage of all wastes shall be on an impermeable surface with sealed drainage.</p> <p>Treatment of all wastes shall take place within a building.</p> <p>Waste types as specified in Table 2.2.</p> <p>Notwithstanding the waste types permitted in Table S2.2 wastes which have any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> - hazardous wastes; and - wastes consisting solely or mainly of dusts or powders. <p>The Road Sweeping Waste Processing Facility will process up to 6,000 tonnes per annum.</p>

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	Technical standards January 2012 Report reference 1456/4/Issue 1 following sections: Section 2: General Maintenance Section 3: Incidents and Non-conformances Section 6: Permitted Activities Section 8: Site Drainage Section 9: Air Quality Management System Section 10: Emissions and Monitoring Odour Management Plan January 2012 Report reference 1456/5/Appendix C/Issue 1	19/01/2012
Application (EPR/BB3436RA/V002)	Part C3 of the application form – Operating Techniques – Table 3 – Technical Standards: Phase 2 MBT Facility – S5.06 Disposal and Recovery of Hazardous and Non-hazardous waste.	22/06/2015
Fire prevention and mitigation plan guidance - Waste	All relevant sections	N/A
Fire prevention and mitigation plan	All relevant sections	21/05/2020
Response to regulation 61(1) Notice – request for information dated 05/04/2019 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 relevant sections	26/09/2019
Additional information for regulation 61(1) Notice	All relevant sections	18/06/2020

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	The operator shall submit for approval a fire management plan based on the Environment Agency Guidance document TGN 7.01 Reducing fire risk at sites storing combustible materials.	Completed
IC2	The Operator shall submit to Natural Resources Wales for written approval information to evidence compliance with BAT Conclusion 1 in accordance with the requirements specified within the BAT Conclusions of the Waste Treatment BREF Document (EU 2018). The Operator shall submit written confirmation that a Residues Management Plan and Odour Management Plan have been fully integrated into the sites Environmental Management System.	17 th February 2022 or otherwise agreed in writing by Natural Resources Wales

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC3	<p>The Operator shall submit to Natural Resources Wales for written approval information to evidence compliance with the following BAT requirements in accordance with the requirements specified within the BAT Conclusions of the Waste Treatment BREF Document (EU 2018) in relation to:</p> <ul style="list-style-type: none"> BAT 3 - in order to facilitate the reduction of emissions to water and air, BAT is to establish and to maintain an inventory of waste water and waste gas streams, as part of the Environmental Management System, that incorporates all of the following features: <ul style="list-style-type: none"> Information about the characteristics of the waste to be treated and the waste treatment processes; information about the characteristics of the waste water streams; and information about the characteristics of the waste gas streams. BAT 6 – for relevant emissions to water as identified by the inventory of waste water streams (see BAT 3), BAT is to monitor key process parameters (e.g. waste water flow, pH, temperature, conductivity, BOD) at key locations (e.g. at the point where the emission leaves the installation). BAT is to use ISO, national or other international standards that ensure the provision of data of an equivalent scientific quality. BAT 7 – is to monitor emissions to water with at least the frequency given within the table of BAT 7 and in accordance with EN standards. BAT 20 – in order to reduce emissions to water, BAT is to treat waste water by using an appropriate combination of the techniques described within the table of BAT 20 with the associated BAT-AELs. The Operator shall submit for written approval a methodology for meeting the relevant process parameters listed in Schedule 3b Table S3.2, following completion of BAT 3. The methodology shall identify each of the relevant process parameters and detail the frequency and techniques in place to record the data (outlined in BAT 7 and BAT 20). Where a process parameter cannot be monitored justification should be provided and/or a suitable alternative proposed. The methodology should include trigger levels for each of the relevant parameters identified with associated procedures in place if trigger levels are exceeded. 	17 th February 2022 or otherwise agreed in writing by Natural Resources Wales
IC4	<p>The Operator shall complete and submit for approval a Phase 1 screening test report for priority hazardous pollutants and any other relevant priority hazardous substances discharged to sewer. For any substance which is not screened out by the screening tests, further modelling (as described in the risk assessment guidance “Surface water pollution risk assessment for your environmental permit”) should be undertaken, and the results of the modelling submitted to Natural Resources Wales for approval.</p>	17 th February 2022 or otherwise agreed in writing by Natural Resources Wales

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC5	The Operator shall submit to Natural Resources Wales for written approval a methodology for meeting the emission limits and monitoring requirements listed in Schedule 3b Table S3.1 point source emissions to air. The methodology should identify each parameter and detail the frequency and techniques in place to record the data. If a parameter cannot be monitored, justification should be provided and/or a suitable alternative proposed.	17 th February 2022 or otherwise agreed in writing by Natural Resources Wales

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for Mechanical Biological Treatment facility	
Maximum quantity	The total annual throughput must not exceed 64,000 tonnes per annum.
Waste code	Description
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
19	MATERIALS FROM WASTE AND WATER TREATMENT
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 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 05 99	wastes not otherwise specified - Compost and compost-like outputs derived from nonsource segregated biodegradable waste
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 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11 20
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 38	wood other than that mentioned in 20 01 37

Table S2.1 Permitted waste types and quantities for Mechanical Biological Treatment facility

Maximum quantity	The total annual throughput must not exceed 64,000 tonnes per annum.
Waste code	Description
20 01 39	plastics
20 01 40	metals
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 06	waste from sewage cleaning
20 03 07	bulky waste

Table S2.2 Permitted waste types and quantities for Road Sweeping Processing facility

Maximum quantity	No more than 6,000 tonnes per annum
	Description
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 03	other municipal wastes
20 03 03	street-cleaning residues

Schedule 3(a) – Emissions and monitoring effective until 16th August 2022

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
There are no emission limits or associated monitoring requirements.						

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency ¹	Monitoring standard or method
There are no emission limits or associated monitoring requirements.						

Table S3.3 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biofilter	Increased emissions of dust and odours	Weekly	Visual inspection	Results of monitoring exercises will be reported to Natural Resources Wales within 28 days of the end of each quarterly monitoring exercise.
Biofilter	-	-	-	A report must be submitted annually to Natural Resources Wales detailing the efficiency and effectiveness of the bio filter.
Outlets from biofilters emitting treated air from inside building	None specified	As required	None specified	Gas sampling points shall be fitted to each outlet.
Inlet to biofilters accepting untreated air from inside building	None specified	As required	None specified	Gas sampling points shall be fitted to each inlet.
Internal for each bio-drying tunnel and for any sample of waste	Temperature	As required	Thermocouple probe	Monitoring equipment shall be available on-site and used as required to ensure compliance with this permit.

Table S3.4 Bioaerosol monitoring requirements

Location or description of point of measurement	Parameter	Bioaerosol threshold limits CFU m⁻³	Monitoring frequency	Monitoring standard or method	Other specifications
Bioaerosols shall be monitored: - upwind of the operational area and - downwind of the operational area site; in accordance with the latest version of "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities 2".	Total bacteria	1000	Every six months unless otherwise agreed in writing by Natural Resources Wales	In accordance with the latest version of "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities" unless otherwise agreed in writing by Natural Resources Wales	As described in M9 Technical Guidance Note, including all the additional data requirements specified therein.
	Aspergillus Fumigatus	500			

Schedule 3(b) – Emissions and monitoring effective from 17th August 2022

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 Stack from the air treatment system	Stack	Odour	1,000 ouE/Nm ³	None Specified	Once every 6 months unless	EN 13725
		Dust	5 mg/Nm ³	None Specified	otherwise agreed in writing by	EN 13284-1
		TVOC	40 mg/Nm ³	None Specified	Natural Resources wales	EN 12619

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency ¹	Monitoring standard or method
S1 Bio-drying tunnels	Leachate from the bio-drying tunnels and internal storage areas	Flow Rate	No limit set	None specified	Continuous	No EN standard available
		Arsenic (As) ²	0.05 mg/l		Once every month ³	Various EN standards available (e.g. EN ISO 11885, EN ISO 17294-2, EN ISO 15586)
		Cadmium (Cd) ²	0.05 mg/l			
		Chromium (Cr) ²	0.15 mg/l			
		Copper (Cu) ²	0.5 mg/l			
		Nickel (Ni) ²	0.5 mg/l			
		Lead (Pb) ²	0.1 mg/l			
		Zinc (Zn) ²	1 mg/l			
		Mercury (Hg) ²	5 µg/l		Once every 6 months	Various EN standards available (e.g. EN ISO 17852, EN ISO 12846)
		PFOA ²	No limit set			
PFOS ²	No limit set					
S2 Road sweeping processing facility	Dirty water from the road sweeping processing facility	There are no emission limits or associated monitoring requirements				

¹ In the case of batch discharge less frequent than the minimum monitoring frequency, monitoring is carried out once per batch.

² Monitoring only applies when the substance concerned is identified as relevant in the waste water inventory (as per IC3).

³ In the case of an indirect discharge to a receiving water body, the monitoring frequency may be reduced if the downstream waste water treatment plant abates the pollutants identified.

Table S3.3 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biofilter	Increased emissions of dust and odours	Weekly	Visual inspection	Results of monitoring exercises will be reported to Natural Resources Wales within 28 days of the end of each quarterly monitoring exercise.
Biofilter	-	-	-	A report must be submitted annually to Natural Resources Wales detailing the efficiency and effectiveness of the bio filter.
Outlets from biofilters emitting treated air from inside building	None specified	As required	None specified	Gas sampling points shall be fitted to each outlet.
Inlet to biofilters accepting untreated air from inside building	None specified	As required	None specified	Gas sampling points shall be fitted to each inlet.
Internal for each bio-drying tunnel and for any sample of waste	Temperature	As required	Thermocouple probe	Monitoring equipment shall be available on-site and used as required to ensure compliance with this permit.

Table S3.4 Bioaerosol monitoring requirements

Location or description of point of measurement	Parameter	Bioaerosol threshold limits CFU m⁻³	Monitoring frequency	Monitoring standard or method	Other specifications
Bioaerosols shall be monitored: - upwind of the operational area and - downwind of the operational area site; in accordance with the latest version of "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities".	Total bacteria	1000	Every six months unless otherwise agreed in writing by Natural Resources Wales	In accordance with the latest version of "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities" unless otherwise agreed in writing by Natural Resources Wales	As described in M9 Technical Guidance Note, including all the additional data requirements specified therein.
	Aspergillus Fumigatus	500			

Schedule 4(a) – Reporting effective until 16th August 2022

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	Reporting period	Period begins
Bioaerosols	Every six months or as agreed in writing by Natural Resources Wales	18/04/2012
Biofilter efficiency	Annually	As agreed in writing by Natural Resources Wales

Table S4.2 Annual production/treatment

Parameter	Units
Total amount of waste treated	Tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Generation of residues	Annually	Tonnes
Generation of waste water	Annually	m ³
Total raw material used	Annually	Tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Bioaerosol monitoring	As specified in the "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities". or other form as agreed in writing by Natural Resources Wales	n/a
Biofilter efficiency	As agreed in writing by Natural Resources Wales	n/a
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	11/06/21
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	11/06/21
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	11/06/21
Waste Subject to Conditions 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	n/a

Schedule 4(b) – Reporting effective from 17th August 2022

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
Emission to air Parameters as required by condition 3.5.1.	A1	Once every 6 months unless otherwise agreed in writing by Natural Resources Wales	17/08/2022
Emission to sewer Parameters as required by condition 3.5.1.	S1	Once every month unless otherwise agreed in writing by Natural Resources Wales	17/08/2022
Bioaerosols	In accordance with M9 – Technical Guidance Note	Every six months or as agreed in writing by Natural Resources Wales	18/04/2012

Table S4.2 Annual production/treatment

Parameter	Units
Total amount of waste treated	Tonnes

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Generation of residues	Annually	Tonnes
Generation of waste water	Annually	m ³
Total raw material used	Annually	Tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	17/08/22
Sewer	Form sewer 1 or other form as agreed in writing by Natural Resources Wales	17/08/22
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	11/06/21
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	11/06/21
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	11/06/21
Waste Subject to Condition 4.2.5	Waste tonnage return form from the Natural Resources Wales website or other form as agreed in writing by Natural Resources Wales	n/a

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Bioaerosol monitoring	As specified in the "M9 – Technical Guidance Note (Monitoring) – Environmental monitoring of bioaerosols at regulated facilities". or other form as agreed in writing by Natural Resources Wales	n/a
Biofilter efficiency	As agreed in writing by Natural Resources Wales	n/a

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	BB3436RA
Name of operator	FCC Recycling (UK) Limited
Location of Facility	Bryn Lane, Wrexham Industrial Estate, Wrexham, LL13 9UT
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment Or 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 permit condition	
To be notified within 24 hours of detection	
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	
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Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:	
To be notified 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.	

Name*	
Post	
Signature	
Date	

* 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.

“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.
- *“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 (BATRRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE).
- *“bioaerosol threshold limits”* means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the composting operations, which are attributable to the composting operations. The maximum acceptable concentrations are respectively 1000 and 500 CFU m⁻³ for total bacteria and *Aspergillus fumigatus*.

“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 or background concentration limit.

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

“hazardous 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

“*Solvent Emissions Directive*” means Directive 1999/13/EC (as amended by Directive 2004/42/EC) on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations.

“*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

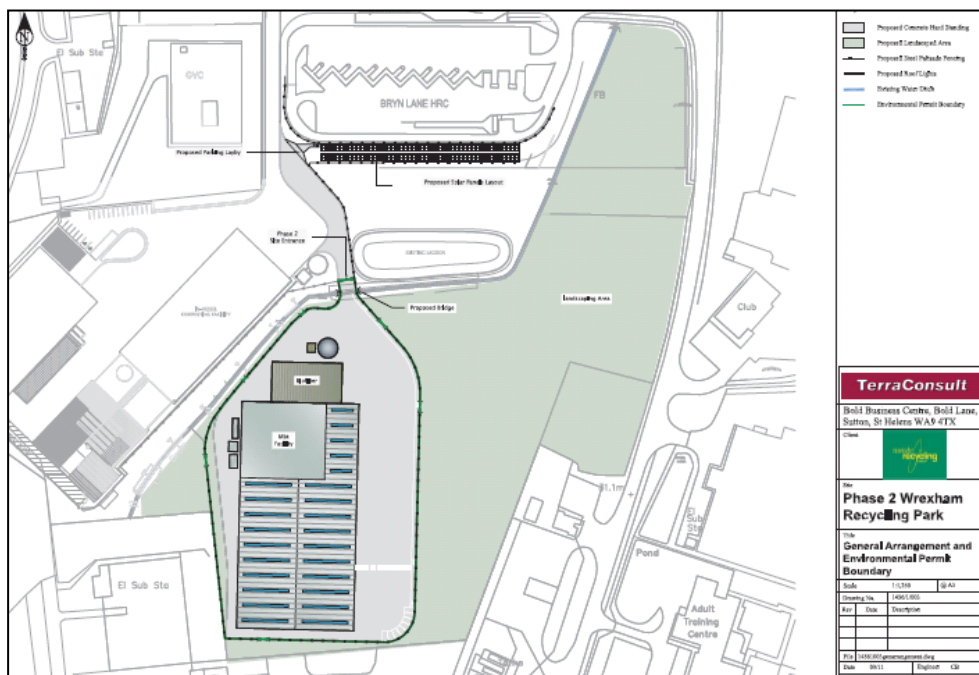
“*year*” means calendar year ending 31 December.

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



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