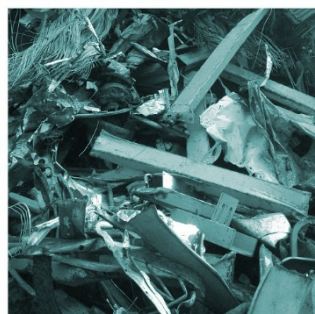
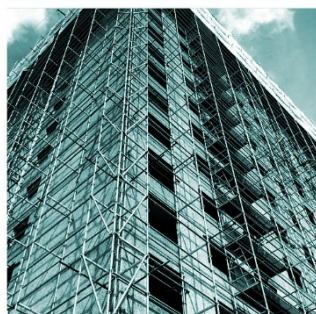
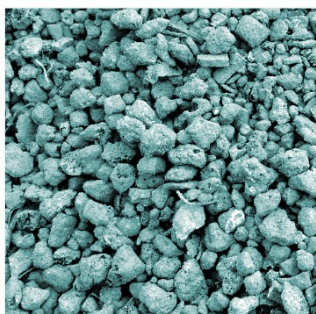
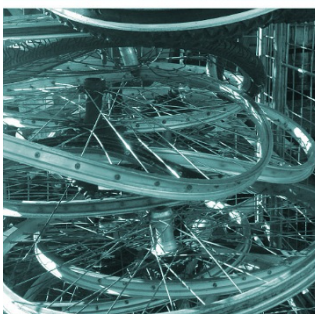
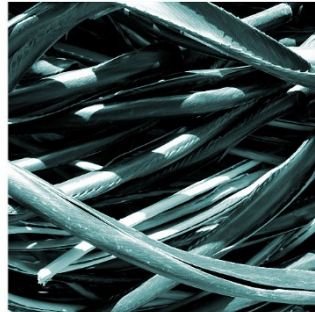
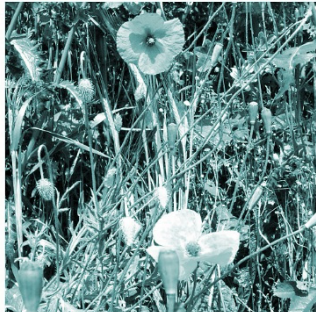


# BIO DYNAMIC UK LIMITED PERMIT VARIATION APPLICATION

List of DAA's  
March 2022



**biodynamic**

Bio Dynamic UK limited

Client: Bio Dynamic UK Limited  
Document Reference: HC1677-09

## REPORT SCHEDULE

**Operator:** Bio Dynamic UK Limited

**Client:** Bio Dynamic UK Limited

**Project Title:** Bio Dynamic UK Limited Permit Variation Application

**Document Title:** List of DAA's

**Document Reference:** HC1677-09

**Report Status:** Final V1.0

**Project Director:** Joanna Holland

**Project Team:** Jo Chapman

AUTHOR	DATE
Jo Chapman	14 <sup>th</sup> March 2022
REVIEWER	
Joanna Holland	13 <sup>th</sup> August 2022
APPROVED	
Joanna Holland	13 <sup>th</sup> August 2022

REVISION HISTORY	DATE	COMMENTS	APPROVED
Final Version 1.0	13 <sup>th</sup> August 2022	For submission to EA	Maxwell Bagnall

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# 1. FORM PART C3

## 1.1. Schedule 1 Listed Activities and Directly Associated Activities

1.1.1. Application Form C3 requires that all directly associated activities (DAA's) are listed. Table 1a below provides the list of DAA's as required.

**Table 1a**

Directly Associated Activities	
Name of DAA	Description of DAA (please identify the schedule 1 activity it serves)
Emergency Flare Operation	Section 6.8 A(1)(c) – burning of biogas in two emergency flare units
Biogas Combustion for Power Supply	Section 6.8 A(1)(c) – burning of biogas in four CHP engines to produce electricity and heat
Waste Pasteurisation	Section 6.8 A(1)(c) – pre- pasteurisation of Cat 3 ABP wastes prior to digestion according to ABPR
Biogas Treatment	Section 6.8 A(1)(c) – via chiller/compressor/carbon filter prior to use in the engines
Biogas Storage	Section 6.8 A(1)(c) – storage of biogas in gas bags pending combustion in CHP engines/flare and upgrading to biomethane at the adjacent BD Gas Permits biogas upgrading facility
Biogas Export	Section 6.8 A(1)(c) – export of biogas for upgrading to biomethane at the adjacent BD Gas Permits biogas upgrading facility
Incoming Waste Storage	Section 6.8 A(1)(c) – storage of incoming liquid wastes in tanks, solid waste in the reception building, and blended pre-treated wastes prior to treatment in the AD process
Waste Pre-Treatment	Section 6.8 A(1)(c) – pre-treatment of waste prior to recovery in the AD process including de-packaging, screening, shredding, and mixing/blending.
Incoming Waste Treatment, Storage and Export/Transfer	Section 6.8 A(1)(c) – treatment and storage of incoming waste by de-packaging and blending for export for use as a feedstock at other third-party AD sites
Collection and Storage of Uncontaminated Water	Section 6.8 A(1)(c) – collection of surface water in from the process area bund and storage of this in a tank prior to use in the process
Storage of Raw Materials	Section 6.8 A(1)(c) – storage of ferric chloride for desulphurisation process and anti-foaming agent. Storage of propane gas prior to injection into final upgraded biomethane product.
Digestate Dewatering	Section 6.8 A(1)(c) – dewatering of digestate using membrane filter technology
Digestate Storage	Section 6.8 A(1)(c) – storage of digestate pending use offsite as a biofertiliser
Discharge of Dewatering Effluent to Surface Water	Section 6.8 A(1)(c) – discharge of final effluent from dewatering operation to surface water



Directly Associated Activities	
Treatment of Air via Odour Abatement Units	Section 6.8 A(1)(c) – extraction of air from the reception building and treatment via an abatement unit. Treatment of displaced air from storage tanks, pasteurisers and digestate tankers through odour abatement units.
Operation of a diesel-powered backup boiler	Section 6.8 A(1)(c) – operation of a diesel-powered boiler for emergency/backup purposes



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