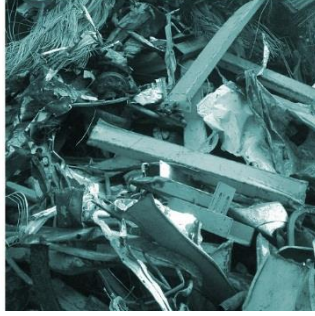
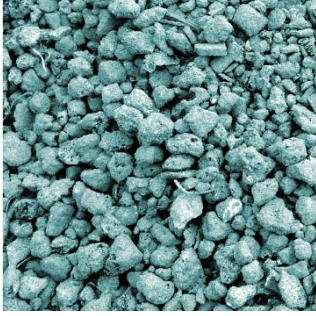
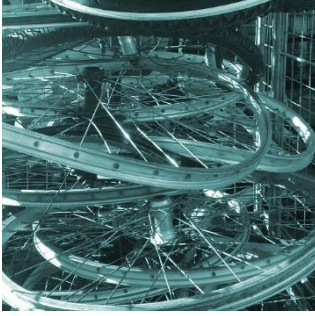
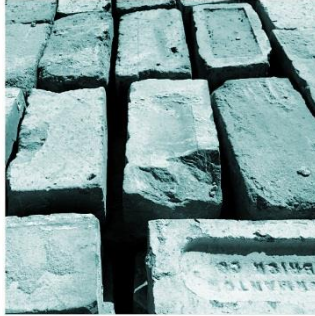
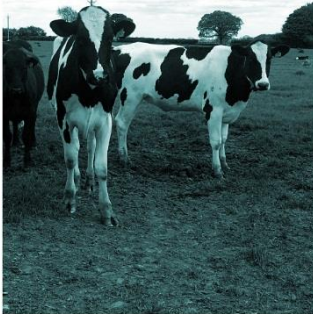
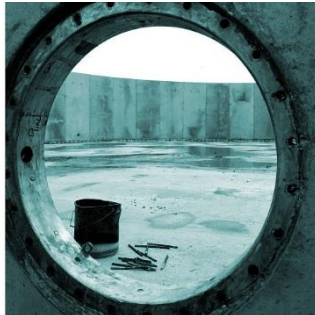


BIO DYNAMIC UK LIMITED PERMIT VARIATION APPLICATION

List of DAA's

March 2022



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 V1.1

Project Director: Joanna Holland

Project Team: Jo Chapman

AUTHOR	DATE
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Joanna Holland	13 th August 2022

REVISION HISTORY	DATE	COMMENTS	APPROVED
Final Version 1.0	13 th August 2022	For submission to EA	Maxwell Bagnall
Final Version 1.1	24 th April 2023	Update site configuration	Maxwell Bagnall

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1. Form Part C3	1
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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 Storage	Section 6.8 A(1)(c) – storage of digestate pending use offsite as a biofertiliser
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-	Section 6.8 A(1)(c) – operation of a diesel-powered boiler for emergency/backup

Directly Associated Activities	
powered backup boiler	purposes



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