

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Duynie Ingredients Limited

**Coed Aben Road
Wrexham Industrial Estate
Wrexham
Clwyd
LL13 9UH**

Permit number
EPR/DB3693FC

Duynie Ingredients Limited

Permit number EPR/DB3693FC

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows. The installation modifies starches to produce high quality wallpaper paste flake and drilling starches for the geological drilling industries. The modified starch products are manufactured using both imported unrefined starches and refined starches.

Imported unrefined starches are purified on site in several stages. These stages include blending the unrefined starch with water, sieving, shaking and drying the product. Imported refined starch is brought into the facility in 1 tonne sacks.

Refined starch is modified in several stages. The starch is reacted with sodium hydroxide and cross-linking agents in two large reaction vessels. This is followed by transfer of the admixture to three horizontal mixing tanks where sodium monochloroacetate (SMCA) is added to produce a carboxylate derivative via carboxymethylation.

SMCA is produced 'in-house' by the controlled reaction of sodium hydroxide solution (32% rayon grade) with 80% monochloroacetic acid, which is an esterification agent used to modify the starch.

The resultant product is then dropped out of the reaction vessels where it is transferred to dryers. There are five dryers on site for this purpose. Two gas-fired boilers are used for the drying process, with the second one being a standby boiler only. This permit also permits the operation of one combined heat and power (CHP) plant to generate electricity and heat which will be installed for use at the site in the future. There are two uncontaminated surface water discharges to Redwither Brook via two penstock valves. There is one point source emission to sewer as the operator holds a Consent to Discharge Trade Effluent with Welsh Water.

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 PAN- 025487 (EPR/TBC/A001)	Duly made 09/04/2025	Application to modify starches to produce high quality wallpaper paste flake and drilling starches for the geological drilling industries.
Schedule 5 Notice request for information	12/05/2025	Confirmation of emission points to air, drainage system and BAT assessment requested

Status log of the permit

Description	Date	Comments
Response received	23/06/2025	BAT assessment and additional information regarding emission points to air which were omitted from original application
Response received	01/12/2025	Revised Air Quality Risk Assessment and monitoring reports for all emission points to air
Response received	03/12/2025	Update site plan
Further information received	18/12/2025	Maximum finished product production capacity and information on the process monitoring checks for the scrubber and filter socks
Further information received	18/02/2026	Updated site plan
Permit determined	27/03/2026	Permit issued to Duynie Ingredients Limited

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/DB3693FC

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

Duynie Ingredients Limited (“the operator”),

whose registered office is

**Coed Aben Road,
Wrexham Industrial Estate,
Wrexham,
Clwyd,
LL13 9UH**

company registration number **06166205**

to operate an installation at

**Duynie Ingredients Limited
Coed Aben Road
Wrexham Industrial Estate
Wrexham
Clwyd
LL13 9UH**

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

Signed

Date

Jennifer McGuire	27/03/2026
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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.

1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1 A1 to A7 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 A7 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”).

2.2 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.
- 2.2.2 For the following activity, reference A7 in schedule 1, table S.1.1 no MCP shall be operated beyond the site, being the land shown edged in green on the site plan in Schedule 7.

2.3 Operating techniques

- 2.3.1 (a) For the following activities referenced in schedule 1, table S1.1 A1 to A7 the activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 For the following activities referenced in schedule 1, table S1.1 A7 the activities shall be operated using the techniques and, in the manner, described in schedule 1, table S1.2A.

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 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, 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 and S3.3.
- 3.5.2 For the following activities referenced in schedule 1, table S1.1 A1 to A7 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.
- 3.5.5. For the following activities referenced in schedule 1, table S1.1 A7 monitoring shall not take place during periods of start up or shut down.
- 3.5.6.** For the following activities referenced in schedule 1, table S1.1 A7, the first monitoring measurements shall be carried out:
- (a) For new MCP within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.

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.

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.

4.1.3 For the following activities referenced in schedule 1, table S1.1 A7 the operator shall maintain a record of the type and quantity of fuel used and the total annual hours of operation for each MCP and/or Specified Generator

4.1.4 For the following activities referenced in schedule 1, table S1.1 A7 the operator shall maintain a record of any events of non-compliance and the measures taken to ensure compliance is restored in the shortest possible time

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 For the following activities referenced in schedule 1, table S1.1 A1 to A7 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.

4.3 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 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.

4.3.7 Where the operator has entered into a climate change agreement with the Government, Natural Resources Wales shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

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 reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
A1	Schedule 1, Part 2, Chapter 4, Section 4.1, Part A (1) (a) (ii)	(a) (ii) organic compounds containing oxygen (e.g. alcohols, aldehydes, ketones, carboxylic acids, esters, ethers, peroxides, phenols, epoxy resins)	From receipt of raw materials to manufacture, storage and despatch of finished product, cleaning of process plant and the storage, handling and despatch of waste arising from the production process. Maximum finished product production capacity limited to 60 tonnes per day and 15,000 tonnes per year of modified starch

Directly Associated Activity

A2	Combustion of mains gas in two steam boilers	1 x 1.6MWth and 1 x 1.1MWth Combustion of natural gas in steam boilers to provide heat to dryers and reactor tanks.	
A3	Receipt, storage and dispatch of materials	Receiving and checking raw material deliveries, storage in suitable locations, transfer to process area, dispatch of completed starch product.	
A4	Discharge to surface water	Surface water run-off from the external yard area falls to surface water drains via 2 penstock valves and discharge to surface water sewer, which in turn falls to the Redwither Brook.	From collection of surface water to discharge to controlled water.
A5	Abatement of emissions to foul sewer	Operation of scrubber, using water as the scrubbing media	
A6	Waste storage and handling including waste water	Collection of waste, storage of waste. Removal from site by approved contractors	

Medium Combustion Plant				
Activity reference	Activity listed in the EP Regulations	Description of Medium Combustion Plant	Fuel	Limits of specified activity
A7	Schedule 25A – Medium Combustion Plant as detailed in Schedule 8	1 x 1.4MWth input CHP	Natural gas	From receipt of fuel to release of combustion products to air, operating hours not restricted

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Environmental management system Raw materials document Containment assessment Energy report Best available techniques document	19/04/24
Application	Non-technical summary In process control document H1 Amenity Risk Assessment	14/11/25 14/11/25

Table S1.2A Operating techniques for Medium Combustion Plant as detailed in Schedule 8	
Description	
Each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this	
The operator must keep periods of start-up and shut-down of each MCP as short as possible	
There must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>Following successful commissioning and establishment of routine steady operation of the CHP, the Operator shall undertake noise monitoring at the nearest local receptors. This shall include:</p> <ul style="list-style-type: none"> A full noise monitoring survey and assessment meeting the BS4142:2014 standard 1/3rd octave and narrow band (FFT) measurements to identify any tonal elements or low frequency noise Reference to the Welsh Government Noise and soundscape action plan 2018-2023. <p>Upon completion of the work, a written report shall be submitted to Natural Resources Wales for approval.</p>	Within 9 months of commissioning of CHP

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC2	Undertake a CCTV survey of the drainage system and update the site drainage plan, which should be drawn to scale	Within 9 months of issuing permit
IC3	<p>The operator shall submit to Natural Resources Wales a climate change risk assessment that includes current and future climate change projections.</p> <p>The assessment must be site specific and uses the most up to date climate projections to:</p> <ul style="list-style-type: none">• plan and manage the risks associated with a 2°C rise by 2050• assess the risks associated with a 4°C rise by 2100• avoid lock-in to future proof your site• consider internal, external and consequential climate change impacts• develop a plan to regularly update the assessment based on new data or emerging climate trends	Within 6 months of issuing permit

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
-	-

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 site plan in Schedule 7]	Starch dryer 1	Particulate matter	20 mg/Nm ³	Periodic	Once every year	EN 13284-1 & and MID for EN 13284-1
A2 [Point A2 on site plan in Schedule 7]	Starch dryer 2	Particulate matter	20 mg/Nm ³	Periodic	Once every year	EN 13284-1 & and MID for EN 13284-1
A3 [Point A3 on site plan in Schedule 7]	Starch dryer 3	Particulate matter	20 mg/Nm ³	Periodic	Once every year	EN 13284-1 & and MID for EN 13284-1
A4 [Point A4 on site plan in Schedule 7]	Starch dryer 4	Particulate matter	20 mg/Nm ³	Periodic	Once every year	EN 13284-1 & and MID for EN 13284-1
A5 [Point A5 on site plan in Schedule 7]	Starch dryer 5	Particulate matter	20 mg/Nm ³	Periodic	Once every year	EN 13284-1 & and MID for EN 13284-1
A6 [Point A6 on site plan in Schedule 7]	Boilers x 2 emit through common stack	No parameters set	-	-	-	
A7 [Point A7 on site plan in Schedule 7]	Scrubber (MCA)	No parameters set	-	-	-	-
A8 [Point A8 on site plan in Schedule 7]	Heat exchanger/flash dryer	No parameters set	-	-	-	-
A9 [Point A9 on site plan in Schedule 7]	Horizontal reactor 1	No parameters set	-	-	-	-

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
A10 [Point A10 on site plan in Schedule 7]	Horizontal reactor 2	No parameters set	-	-	-	-
A11 [Point A11 on site plan in Schedule 7]	Horizontal reactor 3	No parameters set	-	-	-	-
A12 [Point A12 on site plan in Schedule 7]	1.4MWth medium combustion plant engines and gas turbines fuelled on natural gas	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	95 mg/Nm ³	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators	Every 3 years Note 2	In line with web guide: Monitoring stack emissions: low risk MCPs and specified generators Note1
		Carbon monoxide	No limit set			
A13 [Point A13 on site plan in Schedule 7]	Dust extractor 1	No parameters set	-	-	-	-
A14 [Point A14 on site plan in Schedule 7]	Dust extractor 2	No parameters set	-	-	-	-

Note 1: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O₂ content of 6 % for solid fuels, 15 % for engines and gas turbines and 3 % all other MCPs

Note 2: As per condition 3.5.6, the first monitoring measurements will be carried out within four months of the issue date of the permit variation or the date when the MCP is first put into operation whichever is later

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 (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
SW1 on site plan in schedule 7 emission to Redwither Brook	Uncontaminated surface water discharge	No parameter set	-	-	-	-
SW2 on site plan in schedule 7 emission to Redwither Brook	Uncontaminated surface water discharge	No parameter set	-	-	-	-

Table S3.3 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 (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
FW1 on site plan in Schedule 7 emission to sewer	Effluent from the starch refining process	No parameter set	-	-	-	-

Table S3.4 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
A13 and A14 on Site Plan in Schedule 7 Filter socks	Pressure drop across the filter	Continuous	To be agreed in writing with Natural Resources Wales	Selection of abatement equipment which is capable of meeting the specified emission limit in Table S3.4
Scrubber	Spent scrubber water	Weekly check of flow rate	To be agreed in writing with Natural Resources Wales	

Schedule 4 - Reporting

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

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1, A2, A3, A4, A5	Every 12 months	1 January
Emissions to air Parameters as required by condition 3.5.1.	A7	Every 3 years	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Total product production	Tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	M ³
Energy usage	Annually	MWh
Total raw material used	Annually	Tonnes
Waste disposal and/or recovery	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	27/03/26
Water usage	Form water usage 1 or other form as agreed in writing by Natural Resources Wales	27/03/26
Energy usage	Form energy 1 or other form as agreed in writing by Natural Resources Wales	27/03/26
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	27/03/26

Schedule 5 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
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 unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) 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.

“*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.

“*combined heat and power*” (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

“*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.

“*existing MCP*” means an MCP first put into operation before 20/12/2018.

“*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

“*first put into operation*” means that the plant must have been fired with its design fuel up to its full load. This can be, but does not have to be, during commissioning.

“*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)

“*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.

“*medium combustion plant*” or “*MCP*” means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

“*Medium Combustion Plant Directive*” or “*MCPD*” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants.

“*new MCP*” means an MCP first put into operation on or after 20/12/2018.

In relation to MCP, “*operating hours*” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

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

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

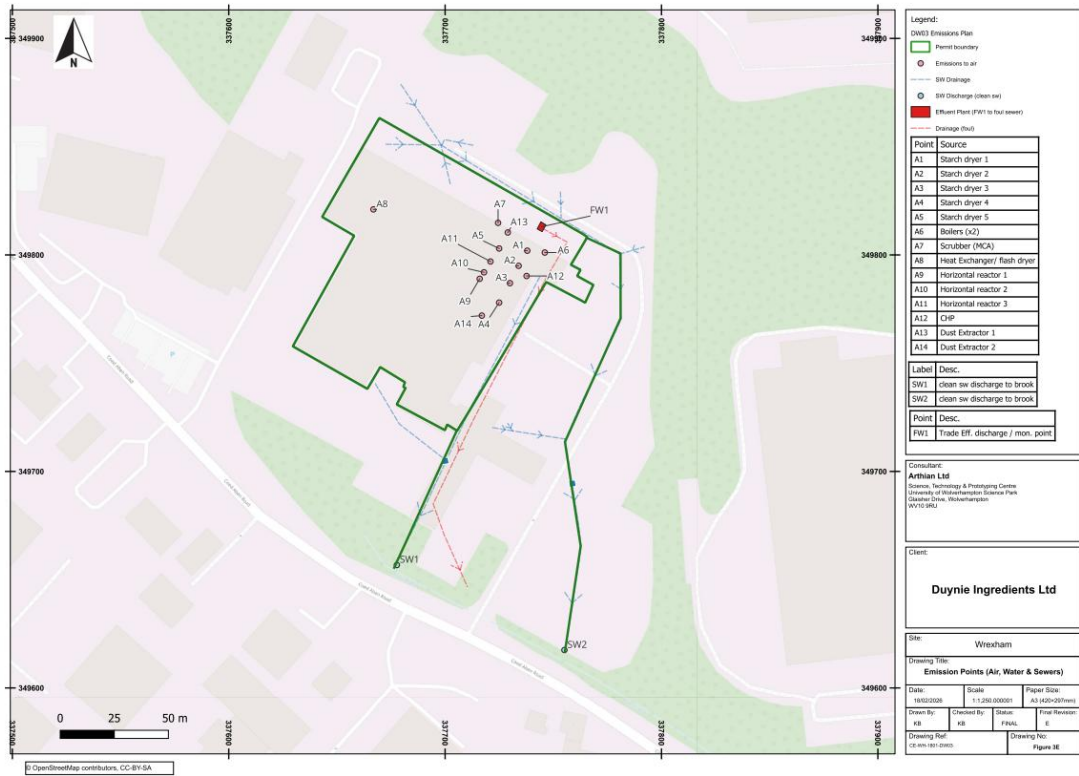
“*Waste code*” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) and in relation to hazardous waste, includes the asterisk.

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

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
[15%] for engines/turbines,
3% for all other processes
dry for liquid and gaseous fuels, 6% dry for solid fuels [11%] for incineration, but usually using incineration template; 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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Schedule 8 – Annex I of MCPD

1. Rated thermal input (MW) of the medium combustion plant.	1.4 MW
2. Type of the medium combustion plant (diesel engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Other Medium Combustion Plant
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	Natural gas
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	New MCP
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code).	10.61
6. Expected number of annual operating hours of the medium combustion plant and average load in use.	8760 average load in use- to be confirmed following installation and commissioning of CHP
7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.	N/A
8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.	<p>Registered Officer Duynie Ingredients Limited Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH</p> <p>Site of MCP Duynie Ingredients Limited Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH</p>

END OF PERMIT