

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Fujifilm Diosynth Biotechnologies UK Limited

Fujifilm Diosynth Biotechnologies
Belasis Avenue
Billingham
TS23 1LH

Variation application number

EPR/BJ8987IQ/V007

Permit number

EPR/BJ8987IQ

Fujifilm Diosynth Biotechnologies

Permit number EPR/BJ8987IQ

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

This permit variation authorises the following changes to the installation:

- Addition of two new areas, Project Borealis - a manufacturing facility and Project BIC-UK (Bioprocessing Innovation Centre UK) - a research facility as listed activities under Schedule 1 Part 1 of The Environmental Permitting (England and Wales) Regulations 2016:

Section 4.5 Part A(1)(a) – Producing pharmaceutical products.

- An extension to the installation boundary to incorporate the Borealis and BIC-UK developments
- Replacement of existing boilers (Danks and Babcock) with two new Clayton boilers fuelled by natural gas
- Addition of nitrogen storage tanks and dewar storage facility as directly associated activities
- Addition of new emission points to air from existing and new operational plant
- Addition of new emission points to sewer from Borealis and BIC-UK facilities
- Removal of emission points that are no longer operational
- Change of company name from MSD Biologics (UK) Limited to Fujifilm Diosynth Biotechnologies UK Limited, change of registered office address to Belasis Avenue, Billingham, TS23 1LH and change of site name from Chilton Lifesciences to Fujifilm Diosynth Biotechnologies.

Borealis is a new biotech manufacturing facility, comprising five production lines. The process consists of cell expansion and cultivation within bioreactors, followed by harvesting, purification, filtration and product concentration prior to packaging and storage. The facility includes an integrated materials warehouse, associated laboratories, and storage areas, an effluent treatment plant (ETP) and standby emergency generators. Process effluent is treated through pH neutralisation, temperature reduction, bio-inactivation and segregation, prior to discharge to sewer via emission point S1. Pending completion of the pre-operational conditions associated with the discharge, the effluent will continue to be tankered off site for disposal.

BIC-UK is a research, development and quality control facility supporting pharmaceutical manufacturing activities. The facility undertakes process development, technology transfer, analytical testing and laboratory scale biological manufacturing processes. Effluent from the facility is discharged to foul sewer at emission point S2, with any unsuitable effluent segregated and removed for off-site disposal.

The rest of the installation remains the same and is operated as follows:

Fujifilm Diosynth Biotechnologies UK Limited operates a manufacturing site at the northern boundary of the Billingham site (NGR NZ 466 226). The Billingham site comprises a number of installations within a common site boundary, with each installation operated by a different company. The installation is located within a predominantly industrial area on the north bank of the River Tees.

The Fujifilm Diosynth Biotechnologies installation manufactures a range of pharmaceutical products using chemical and biological processes. These products are sold for further processing by third parties into finished pharmaceutical products and medicines.

Processing involves fermentation, biotransformation and cell culture processes using a range of raw materials and varying operating conditions. Manufacturing takes place in enclosed vessels supplied with nutrients and air, with process parameters such as temperature, pH and oxygen availability maintained under controlled conditions. The principal emissions from the manufacturing processes are water vapour and carbon dioxide.

Following completion of the fermentation or cell culture process, products undergo harvesting, purification and filtration processes, including chromatography and centrifugation where required. Products are further processed, packaged and stored under controlled conditions prior to dispatch.

All processes are operated in accordance with Good Manufacturing Practice (GMP) and are approved by the Food and Drug Administration (FDA) and the Medicines and Healthcare Products Regulatory Agency (MHRA).

There are 23 emission points to air associated with the installation. These emissions arise from fermentation processes, boilers, emergency combustion plants (emergency generators and fire pumps) and associated manufacturing activities. There is a direct discharge to the River Tees, which runs to the south of the Billingham site and is shared with other installations. Emissions to water from the Fujifilm Diosynth Biotechnologies site are monitored at the discharge point into the Billingham drain.

The installation operates its own Environmental Management System which includes environmental policies, objectives, procedures and improvement programmes. The installation is a member of a Climate Change Agreement.

The Teesmouth and Cleveland Coast Special Protection Area (SPA), Ramsar site and Site of Special Scientific Interest (SSSI) are located within 10 km of the installation.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application received	Received 03/04/2006	
Additional information received	01/03/2007	Transfer application request payment.
Permit determined EPR/BJ8987IQ	29/03/2007	Permit issued to Avecia Biologics Ltd.
Application EPR/BJ8987IQ/V002 (variation)	Duly made 12/03/2009	
Variation determined and notice issued EPR/BJ8987IQ/V002	10/09/2009	Variation notice issued.
Application EPR/BJ8987IQ/V003 (variation)	Received 08/03/2010	Administrative variation to change the company name from Avecia Biologics Limited to MSD Biologics (UK) Limited and the registered address.
Variation determined and notice issued EPR/BJ8987IQ/V003	29/03/2010	Variation notice issued.
Application EPR/BJ8987IQ/V004 (variation)	Withdrawn 08/11/2024	Application withdrawn by the operator.
Application EPR/BJ8987IQ/V005 (variation)	Returned 02/09/2025	Application returned as not duly made.
Application EPR/BJ8987IQ/V006 (variation)	Returned 03/02/2026	Application returned as not duly made.
Application EPR/BJ8987IQ/V007 (variation and consolidation)	Duly made 28/04/2026	Substantial variation application for increasing production lines (Project Borealis), addition of new lab (Project BIC-UK), extension of

Status log of the permit		
Description	Date	Comments
		installation boundary, replacement of boilers and new emission points to air and water.
Schedule 5 notice	25/08/2026	Response received against Schedule 5 Notice issued on 13/08/2026.
Additional information received	25/08/2026	Response received against the RFI email dated 25/08/2026 regarding the different effluent disposal routes and SDS of chemicals used for pH adjustment.
	26/08/2026	
	18/09/2026	Response received against the RFI email dated 11/09/2026.
	30/09/2026	Response received against the RFI email dated 15/09/2026 regarding additional noise modelling and technical addendum to the Noise Impact Assessment.
	30/09/2026	Response received against the RFI email dated 16/09/2026 regarding updated Stage 1 to 3 assessment REV04.
	08/10/2026	Response received against the RFI email dated 05/10/2026 regarding Stage 1 to 3 assessment REV05.
	09/10/2026	Response received against RFI email dated 07/10/2026 regarding BIC-UK fume hood, SPMP and demineralisation plant.
	09/10/2026	Response received against RFI email dated 08/10/2026 regarding dispensing booth filters emissions.
	13/10/2026	Supporting information received regarding testing frequency of diesel fire pump.
	14/10/2026	Response received against RFI email dated 13/10/2026 regarding climate change agreement, confirmation of emergency plant testing regime, diesel storage capacity and electrical fire pump.
	15/10/2026	Response received against RFI email dated 12/10/2026 regarding diesel fire pump net thermal input and emissions point plan.
	21/10/2026	Operator review response received with a corrected emissions point plan_I5.
Variation determined and consolidation issued EPR/BJ8987IQ/V007	23/10/2026	Varied and consolidated permit issued in modern format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/BJ8987IQ

Issued to

Fujifilm Diosynth Biotechnologies UK Limited ("the operator")

whose registered office is

Fujifilm Diosynth Biotechnologies
Belasis Avenue
Billingham
TS23 1LH

company registration number 05803359

to operate a regulated facility at

Fujifilm Diosynth Biotechnologies
Belasis Avenue
Billingham
TS23 1LH

to the extent set out in the schedules.

The notice shall take effect from 23/10/2026.

Name	Date
Sandra Cavill	23/10/2026

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator. We have also updated the operator name, registered office address and site name with this variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BJ8987IQ

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BJ8987IQ/V007 authorising,

Fujifilm Diosynth Biotechnologies UK Limited (“the operator”),

whose registered office is

**Fujifilm Diosynth Biotechnologies
Belasis Avenue
Billingham
TS23 1LH**

company registration number 05803359

to operate an installation at

**Fujifilm Diosynth Biotechnologies
Belasis Avenue
Billingham
TS23 1LH**

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

Name	Date
Sandra Cavill	23/10/2026

Authorised on behalf of the Environment Agency

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

1.3 Efficient use of raw materials

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

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

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 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 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 the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency 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 the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 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.
- 2.3.5 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.
- 2.3.6 For activities AR4 and AR7 specified in Schedule 1 Table S1.1:
- (a) the operator must keep periods of start-up and shut down of the combustion plant as short as possible.
 - (b) there shall be no persistent emission of ‘dark smoke’ as defined in section 3(1) of the “Clean Air Act 1993”.

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 the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Total annual emissions from the emission points set out in schedule 3 tables S3.1, S3.2 and S3.3 of a substance listed in schedule 3 table S3.4 shall not exceed the relevant limit in table S3.4.
- 3.1.4 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 the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency 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 the Environment Agency.
- 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 the Environment Agency, 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 the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency 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 the Environment Agency.

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 the Environment Agency, 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.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1, S3.2 and S3.3;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 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, S3.3 unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 For the following activities referenced in schedule 1, table S1.1 (AR4 and AR7) the first monitoring measurements shall be carried out within four months of the issue date of the permit or of the date when the MCP is first put into operation, whichever is later.
- 3.5.6 Monitoring of MCP shall not take place during periods of start-up or shut-down.

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 the Environment Agency, 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 the Environment Agency.
- 4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual operating hours for each MCP.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) 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 the Environment Agency, 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 the Environment Agency, 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 In the event:
- (a) 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 the Environment Agency,
 - (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) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) 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 the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency 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) the Environment Agency 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 The Environment Agency 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, the Environment Agency 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
AR1	Section 4.5 Part A(1)(a) - Producing pharmaceutical products.	MF1 & MF2 – microbial fermentation production scale facility for manufacturing active pharmaceutical ingredients (APIs) (2 x 5000 L, 2 x 500 L, 2 x 50 L fermenters). MF3 – microbial fermentation small scale facility for manufacturing APIs (100 L fermenter). MF4 – microbial fermentation process development (100 L fermenter). MCC – mammalian cell culture and downstream processing; insect cell culture and downstream processing (20-200 L & 500-2000 L bioreactors).	From receipt of raw materials to dispatch of finished product.
AR2	Section 4.5 Part A(1)(a) - Producing pharmaceutical products.	<u>Borealis</u> – manufacturing APIs by upstream processes namely cell expansion, centrifugation & filtration, harvesting and downstream processes namely affinity chromatography, viral inactivation, depth filtration followed by cation exchange chromatography, anion exchange chromatography, viral filtration and finally ultrafiltration/diafiltration. 2 lines x 5000 L 3 lines x 2000 L	From receipt of raw materials to dispatch of finished product.
AR3	Section 4.5 Part A(1)(a) - Producing pharmaceutical products.	BIC-UK – for process development and analytical testing of biological pharmaceutical products. 2 labs x (20 - 500 L) upstream process capacity, downstream purification with microbial, mammalian and viral gene therapy components.	For research and development purposes only.
Directly Associated Activity			
AR4	Steam supply	<u>Medium Combustion Plant</u> 2 x 5.057 MWth boilers fuelled on natural gas for generating heat/steam for processing.	From receipt of natural gas on site to use of steam for site process and space heating.
AR5	Dewar Store and Nitrogen Tank	Bulk storage tank and small external store for nitrogen storage bottles.	From receipt of nitrogen bottles to its use on site.
AR6	Emergency Combustion Plant (generators for electricity supply and	9 diesel fuelled standby generators across all sites for emergency purpose only with <1MWth thermal input.	Maximum operational testing for each generator is limited to 50 hours per year,

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
	pressure supply for fire hydrant pumps)		with testing parameters to be set at emergency operational scenario.
AR7	Emergency Combustion Plant (generators for electricity supply and pressure supply for fire hydrant pumps)	<u>Medium Combustion Plant</u> 3 diesel fuelled standby generators for emergency purpose only. L6 building – 1.06MWth Borealis (standby generator) –6.34MWth Borealis (diesel fire pump generator) – 5.2MWth	Maximum operational testing for each generator is limited to 50 hours per year, with testing parameters to be set at emergency operational scenario.
AR8	Effluent Treatment Plant (Borealis)	Treatment of process effluent and washings which include pH neutralisation, temperature reduction, bio-inactivation and segregation prior to discharge.	The effluent treatment plant capacity is limited to less than 50 tonnes per day. The effluent is tankered off site for disposal, pending completion of POC 1 & 2.
AR9	Abatement associated with dispensing booth	Three stage high efficiency filtration system which includes: Pre-pad filters Fine dust filters HEPA filters	To abate emissions to air.
AR10	Storage of diesel	2000 L storage capacity for storage of diesel to be used as fuel for the emergency combustion plant across all three sites.	As specified in Schedule 2 Table S2.1. For use in emergency combustion plants only.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to section 2.1 and 2.2 of the application.	03/04/2006
Application Variation EPR/BJ8987IQ/V002 Additional information	Email attachment 'Schematic emission update Aug 09'	28/08/2009
Additional information	Email attachment 'Schematic emission update Sep 09'	08/09/2009
Application Variation EPR/BJ8987IQ/V007	- Environmental and Climate Change Risk Assessment, dated 31st March 2026, Section 3. - Noise Management Plan dated 15th May 2026.	Duly Made 28/04/2026
Additional information	Email from Ms. S. Rainey & Ms. J. Laing regarding the current and proposed effluent treatment and discharge paths for Borealis and BIC-UK effluents.	26/08/2026

Table S1.2 Operating techniques		
Description	Parts	Date Received
Additional information	- RFI response document (ref. SOL_24_P121_FUJ), response to questions 6, 8, 12. - Application Support Document v. I2 a) 3.2.3 Raw Materials b) 3.2.5 Process description for Borealis c) Table 3.3 Stand-by Generator BAT Assessment (L6 & Borealis) d) 4.8 Waste Generation & Management & Table 4.4 e) 5. Environmental Monitoring f) Technical standards in relation to Best available techniques as described in BAT conclusions under Directive 2010/75/EU of the European Parliament and of the Council, for common waste water and waste gas treatment/management systems in the chemical sector BAT Conclusions. g) Technical standards in relation to indicative best available techniques (BAT) as described in the sector guidance note 'How to comply with your environmental permit – Additional guidance for: Speciality Organic Chemicals Sector (EPR 4.02)' indicative BAT	18/09/2026
Additional information	Stage 1 to 3 Assessment REV05	08/10/2026
Additional information	Point 1 in the RFI response email from Ms. S. Rainey confirming the testing frequency for the emergency plant.	14/10/2026

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	A written procedure shall be submitted to the Agency detailing the measures to be used so that monitoring equipment, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.5.3. (current template). The notification requirements of condition 2.4.2 (current template) shall be deemed to have been complied with on submission of the procedure.	Complete
IC2	The operator shall undertake a review of the effluent discharged to water from the installation. The review shall include the following: - Composition of the effluent stream's COD and BOD; - A review of effluent disposal techniques in use in order to result in minimisation of volumes disposed off-site. The operator shall submit a report to the Agency detailing options for discharge to sewer and a timetable for the implementation of any proposed improvements.	Complete
IC3	The operator shall develop a written Site Closure Plan with regard to the requirements set out in Agency Guidance Note IPPC S4.02. On completion of the plan the operator shall confirm in writing to the Agency that this action has been completed.	Complete
IC4	A written energy efficiency plan shall be submitted to the Agency for approval. The plan shall comply with the requirements of Section 2.7.2 of Sector Guidance Note S4.02. Where appropriate the plan shall contain dates for the implementation of individual improvements. The notification	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	requirements of condition 2.4.2 (current template) shall be deemed to have been complied with on submission of the plan.	
IC5	The operator shall carry out a water efficiency audit in order to identify areas of potential water saving within the installation. The result of the audit will be reported to the Agency along with a written timetable of improvements.	Complete
IC6	The operator shall submit a written report to the Environment Agency for technical assessment and written approval. The report must contain: - Results of monitoring from emission point A5 associated with the dispensing booth, for the parameters assessed within the H1 submitted with the application EPR/BJ8987IQ/V007, and particulate matter where this may be emitted from the dispensing booth, to verify the assumptions made within the H1. The results shall be taken from a minimum of three rounds of monitoring. - A revised H1 using the results of the new monitoring where the actual emissions are higher than those in the original H1, or where additional pollutants are identified through monitoring. - Detailed air dispersion modelling where the emissions do not screen out within the revised H1. - Proposals for mitigation measures with timescales to abate emissions where detailed modelling does not screen out emissions. The operator must implement any proposals identified within the report in accordance with the Environment Agency's written approval and within the approved timescales.	Within 12 months from the date of permit issue.
IC7	The operator shall submit a written report to the Environment Agency for technical assessment and written approval of their Firewater Containment and Drainage Assessment for the whole site. The assessment shall: - Identify potential pathways by which contaminated firewater and fire-fighting run-off could enter surface water, groundwater, land or other environmental receptors; - Demonstrate how contaminated firewater and associated run-off will be contained and prevented from entering the environment; - Demonstrate that adequate drainage and containment infrastructure and capacity are available to contain the maximum foreseeable volume of contaminated firewater; and - Where inadequate containment measures are identified, specify the measures required to achieve adequate containment and provide a programme with timescale for their implementation. The operator must implement any proposals identified within the report in accordance with the Environment Agency's written approval and within the approved timescales.	Within 6 months from the date of permit issue.
IC 8	The Operator shall provide an updated Noise Management Plan (NMP) to the Environment Agency for assessment and written approval. The updated NMP shall provide: confirmation that off load testing - of the standby electricity supply diesel generator and the diesel generator which maintains the supply pressure for the fire hydrant - will take place for no longer than a total of 35 mins per month, between 0900 and 1500 Monday-Friday.	Within 3 months from the date of permit issue.

Table S1.3 Improvement programme requirements																																													
Reference	Requirement								Date																																				
	- confirmation that either acoustic louvres / splitter attenuators - or an acoustic barrier – (as discussed in Section 3 of “<i>Technical Addendum - 2064003-RSKA-TN-001-(02) dated 29th September 2026</i>”) have been installed, to mitigate the noise impacts from the testing of relevant emergency plant. - evidence to confirm that either: ➤ the insertion loss of acoustic louvres or splitter attenuators which have been fitted - is no less than that which was provided by the operator in “<i>Technical Addendum - 2064003-RSKA-TN-001-(02) dated 29th September 2026</i>” – specifically: <table><tr><td></td><td colspan="8">Insertion Loss dB, in octave frequency band (Hz)</td></tr><tr><td>Mitigation Proposal Element</td><td>63</td><td>125</td><td>250</td><td>500</td><td>1000</td><td>2000</td><td>4000</td><td>8000</td></tr><tr><td>SBL1 - Sound Bar Louvre, Acoustic Louvre</td><td>4</td><td>7</td><td>9</td><td>13</td><td>14</td><td>12</td><td>12</td><td>8</td></tr><tr><td>N2T07C - Rectangular Attenuators with Tapered Splitters</td><td>8</td><td>12</td><td>21</td><td>34</td><td>44</td><td>42</td><td>32</td><td>19</td></tr></table> Or ➤ the acoustic barrier which has been installed is of the technical specification identified by the operator in “<i>Technical Addendum - 2064003-RSKA-TN-001-(02) dated 29th September 2026</i>” – specifically: ▪ has a minimum height of 2.5m ▪ has a minimum surface mass of 24 kg/m² ▪ is constructed continuously (without gaps beneath) around or between individual panels or slats ▪ fully screens the enclosed plant ▪ removes any direct line of sight between the units and the nearest noise-sensitive receptors ▪ is manufactured in a way which ensures its long-term acoustic integrity									Insertion Loss dB, in octave frequency band (Hz)								Mitigation Proposal Element	63	125	250	500	1000	2000	4000	8000	SBL1 - Sound Bar Louvre, Acoustic Louvre	4	7	9	13	14	12	12	8	N2T07C - Rectangular Attenuators with Tapered Splitters	8	12	21	34	44	42	32	19	
	Insertion Loss dB, in octave frequency band (Hz)																																												
Mitigation Proposal Element	63	125	250	500	1000	2000	4000	8000																																					
SBL1 - Sound Bar Louvre, Acoustic Louvre	4	7	9	13	14	12	12	8																																					
N2T07C - Rectangular Attenuators with Tapered Splitters	8	12	21	34	44	42	32	19																																					

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
POC 1	Discharge of treated effluent to receiving waters (Dabholm Gut, Tees Estuary) via Northumbrian Water Limited (NWL).	Surface water pollution risk assessment Prior to discharge of effluent from the Borealis facility at emission point S1 to Dabholm Gut via Northumbrian Water Limited (NWL), the operator shall submit a written report to the Environment Agency for technical assessment and written approval. The report must include: • The results of representative sampling and monitoring of the effluent to be discharged from emission point S1. • Evidence that sampling and monitoring has been undertaken in accordance with the Environment Agency guidance for <u>surface water pollution risk assessment</u>. • Characterisation of the effluent, including all relevant pollutants associated with the permit activities, and not limited to the pollutants stated in the NWL trade effluent consent. • Confirmation of the concentrations of pollutants likely to be present in the effluent from the Borealis ETP and their effective concentration at point of discharge into Dabholm Gut. • Details of analytical methods and associated 'minimum reporting value' (MRV) used, including justification for any MRV exceeding 10% of the relevant environmental quality standards (EQS) or predicted no-effect concentration (PNEC). • Comparison of the concentrations of these pollutants with their relevant EQS or PNEC. • Where the effective concentration of the substances at the point of discharge exceeds their respective EQS or PNEC, the operator shall carry out modelling to assess the impact of discharge on the receiving protected transitional and coastal (TRaC) waters. • Where the modelling identifies potential for significant environmental impact, proposals and timescales for mitigation to ensure that discharge will not have significant impact on the receiving environment. • Proposals for emission limits for the substances identified within the effluent. The indirect discharge of treated effluent to these receiving waters via Northumbrian Water Limited shall not commence until 'not significant' impact to Teesmouth and Cleveland Coast has been demonstrated, and written approval has been received from the Environment Agency under this pre-operational condition.
POC 2	Discharge of treated effluent to receiving waters (Dabholm Gut, Tees Estuary) via Northumbrian Water Limited (NWL).	Demonstration of nutrient neutrality Prior to discharge of effluent from the Borealis facility at emission point S1 to Dabholm Gut via Northumbrian Water Limited, the operator shall submit a written report to the Environment Agency for technical assessment and written approval. The report shall: • Demonstrate how the operator will ensure that the discharge of treated effluent from the permitted process will either:

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
		- Result in zero net nutrient nitrogen by reduction in nutrient nitrogen additions to the Teesmouth and Cleveland Coast SPA, Ramsar site. Or - Result in zero net nutrient nitrogen by offsetting nutrient nitrogen additions to the Teesmouth and Cleveland Coast from other contributing sources. • Outline a contingency measure in the event nitrogen reduction or offsetting schemes become unavailable. • Confirm the zero net nutrient nitrogen measures have been implemented. The indirect discharge of treated effluent to these receiving waters via Northumbrian Water Limited shall not commence until a zero net nutrient nitrogen addition to Teesmouth and Cleveland Coast has been demonstrated, and written approval has been received from the Environment Agency under this pre-operational condition.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas oil or an equivalent substitute to be agreed in writing with the Environment Agency.	Less than 0.1% sulphur content

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 on site plan in schedule 7	Fermenter	No parameter set	-	-	-	-
A2 on site plan in schedule 7	Fermenter	No parameter set	-	-	-	-
A3 on site plan in schedule 7	Fermenter (MF3)	No parameter set	-	-	-	-
A4 on site plan in schedule 7	Fermenter (MF3)	No parameter set	-	-	-	-
A5 on site plan in schedule 7	Dispensing booth	VOC total Class A ^{Note 1}	20 mg/Nm ³	Average over the monitoring period ^{Note 2}	Once every 6 months ^{Note 3}	BS EN 12619 Or BS EN 13199
		VOC total Class B ^{Note 1}	75 mg/Nm ³			
		Particulate Matter	5 mg/Nm ³		Annually	BS EN 13284-1
A6 on site plan in schedule 7	Clayton Boiler 1	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100 mg/Nm ³	Average over the monitoring period	Every 3 years	BS EN 14792
		Carbon Monoxide (CO)	No limit set			BS EN 15058
A7 on site plan in schedule 7	Clayton boiler 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100 mg/Nm ³	Average over the monitoring period	Every 3 years	BS EN 14792
		Carbon Monoxide (CO)	No limit set			BS EN 15058
A8 – A13 & A15 – A17 on site plan in schedule 7	Emergency generators fuelled by diesel (all <1MWth)	No parameters set	-	-	-	-
A14 on site plan in schedule 7	J632 - L6 emergency generator fuelled by diesel (1.06MWth)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Average over the monitoring period	Every 3 years	BS EN 14792
		Carbon Monoxide (CO)				BS EN 15058
A18 on site plan in schedule 7	Borealis emergency generator fuelled by diesel (6.34MWth)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Average over the monitoring period	Every 3 years	BS EN 14792
		Carbon Monoxide (CO)				BS EN 15058

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
A19 on site plan in schedule 7	BIC-UK laboratory fume hood (1)	No parameters set	-	-	-	-
A20 on site plan in schedule 7	Air Handling Unit 1	No parameters set	-	-	-	-
A21 on site plan in schedule 7	BIC-UK laboratory fume hood (2)	No parameters set	-	-	-	-
A22 on site plan in schedule 7	Air Handling Unit 2	No parameters set	-	-	-	-
A23 on site plan in schedule 7	Borealis diesel fire pump generator (5.2MWth)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	Average over the monitoring period	Every 3 years	BS EN 14792
		Carbon Monoxide (CO)				BS EN 15058
Note 1: The VOC concentration levels apply where the following total mass release rates are exceeded: - Total Class A 100g/h (expressed as individual VOCs) - Total Class B 5 tonnes/year or 2kg/h, whichever is lower (expressed as carbon). Note 2: To the extent possible, the measurements are carried out at the highest expected emission state under normal operating conditions. Note 3: The minimum monitoring frequency may be reduced to once every year or once every 3 years if the emission levels are proven to be sufficiently stable.						

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
W1 on site plan in schedule 7 emission to River Tees	Process, cooling water and condensate	Flow	No limit set	Continuous	Continuous	SCA estimation of flow and load
W1 on site plan in schedule 7 emission to River Tees	Process, cooling water and condensate	pH	5 – 12	Hourly average	Continuous	SCA measurement of electronic conductivity and determination of pH

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
W1 on site plan in schedule 7 emission to River Tees	Process, cooling water and condensate	Chemical Oxygen Demand (COD)	700mg/l	Weekly time proportional sample	Weekly	BS 6068 – 2.34:1988
W1 on site plan in schedule 7 emission to River Tees	Process, cooling water and condensate	Ammoniacal Nitrogen as N	No limit set	Weekly time proportional sample	Weekly	BS6068: Section 2.11 1984

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
S1 on site plan in schedule 7 emission to Dabholm Gut (Bran Sands), via Northumbrian Water Limited.	Borealis - Site effluent treatment plant	To be set on completion of pre-operational conditions 1 & 2	To be set on completion of pre-operational conditions 1 & 2	To be set on completion of pre-operational conditions 1 & 2	To be set on completion of pre-operational conditions 1 & 2	To be set on completion of pre-operational conditions 1 & 2
S2 on site plan in schedule 7 emission to Dabholm Gut (Bran Sands) via Cowpen Road combined foul sewer	BIC-UK facility	No parameters set	-	-	-	-

Table S3.4 Annual limits		
Substance	Medium	Limit (including unit)
Ammoniacal Nitrogen as N	Water	7500 kg rolling 12-month aggregate
Chemical Oxygen Demand (COD)	Water	100,000 kg rolling 12-month aggregate

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
Point source emissions to air	A5	Once every 6 months	1 January, 1 July
Parameters as required by condition 3.5.1	A6, A7, A14, A18, A23	First monitoring undertaken in accordance with Condition 3.5.5 to be reported within 3 months and thereafter every 3 years.	1 January
Point source emissions to water (other than sewer)	W1	Every 3 months	1 January, 1 April, 1 July, 1 October
Parameters as required by condition 3.5.1			
Point source emissions to sewer	S1	Annually	1 January
Parameters as required by condition 3.5.1		On commencing emissions via S1.	

Table S4.2: Annual production/treatment	
Parameter	Units
Pharmaceutical product	kg

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Total COD release to W1	Annually	kg

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 2, February 2026
Point source emissions to water (other than sewer)	Emissions to Water Reporting Form, or other form as agreed in writing by the Environment Agency	Version 2, February 2026
Point source emissions to sewer	Emissions to Sewer Reporting Form, or other form as agreed in writing by the Environment Agency	Version 2, February 2026
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

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 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	
Substance(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 limit	
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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substance(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 the Environment Agency 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.

“emissions to land” includes emissions to groundwater.

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

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

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

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

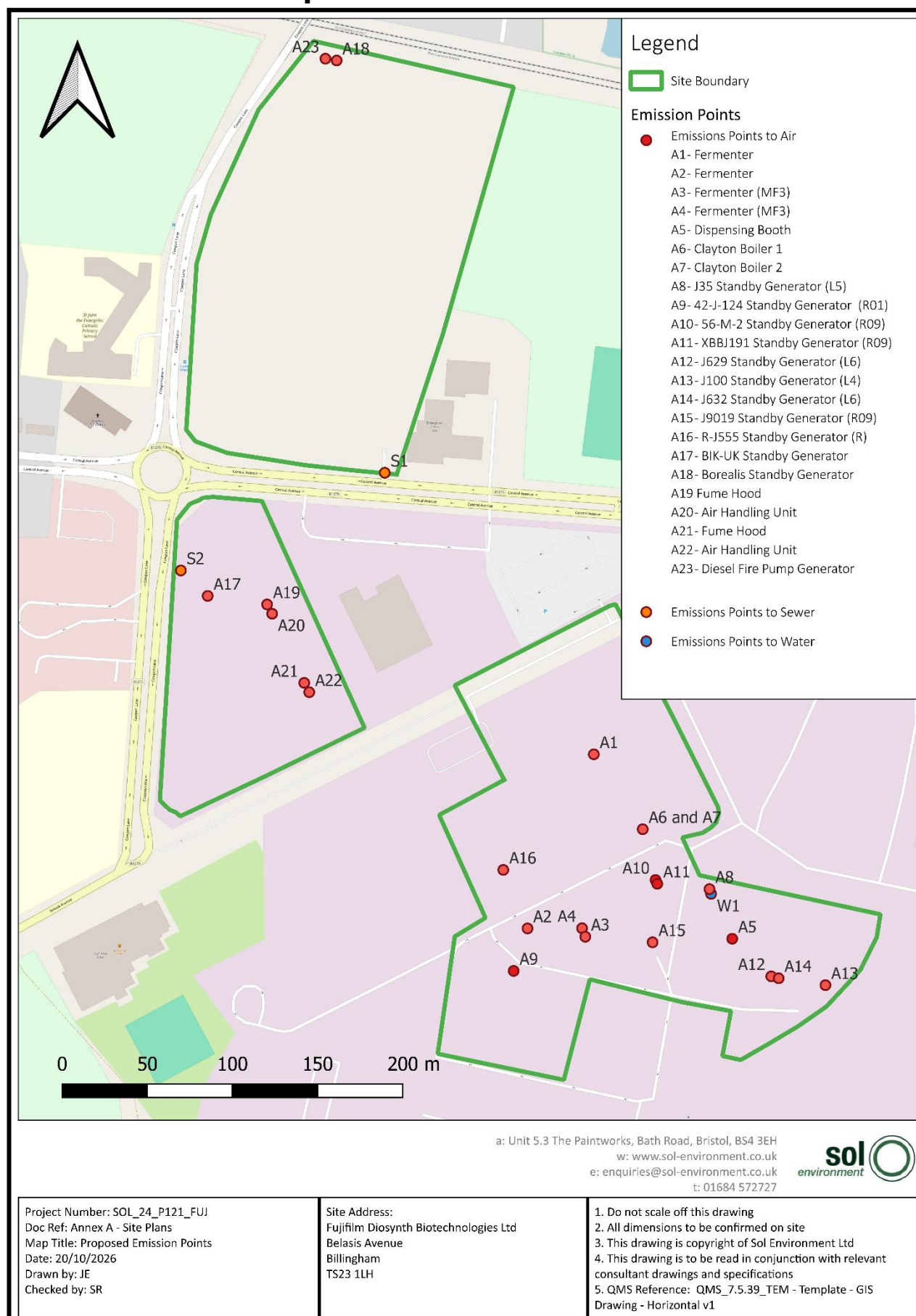
“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

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:

- 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
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels; and/or
- 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
- “year” means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT

Emissions to Air Reporting Form

Permit number: EPR/BJ8987IQ

Operator: Fujifilm Diosynth Biotechnologies UK Limited

Facility name: Fujifilm Diosynth Biotechnologies

Emissions to Air Reporting Form: version 2, February 2026

Reporting of emissions to air for the period from [DD/MM/YY] to [DD/MM/YY]

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Measurement uncertainty ⁴
<i>[e.g. A1]</i>	<i>[e.g. Oxides of nitrogen (NO and NO₂ expressed as NO₂)]</i>	<i>[e.g. 200 mg/m³]</i>	<i>[e.g. daily average]</i>	<i>[e.g. BS EN 14181]</i>	<i>[State result]</i>	<i>[State relevant dates and time periods]</i>	<i>[State % uncertainty at 95% confidence interval]</i>

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Give the uncertainty associated with the quoted result at the 95% confidence interval. State any confidence intervals that are not 95%.

Emissions to Water Reporting Form

Permit number: EPR/BJ89871Q

Operator: Fujifilm Diosynth Biotechnologies UK Limited

Facility name: Fujifilm Diosynth Biotechnologies

Emissions to Water Reporting Form: version 2, February 2026

Reporting of emissions to water (other than to sewer) for the period from [DD/MM/YY] to [DD/MM/YY]

[illegible]

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Give the uncertainty associated with the quoted result at the 95% confidence interval. State any confidence intervals that are not 95%.

Emissions to Sewer Reporting Form

Permit number: EPR/BJ89871Q

Operator: Fujifilm Diosynth Biotechnologies UK Limited

Facility name: Fujifilm Diosynth Biotechnologies

Emissions to Sewer Reporting Form: version 2, February 2026

Reporting of emissions to sewer for the period from [DD/MM/YY] to [DD/MM/YY]

[illegible]

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Give the uncertainty associated with the quoted result at the 95% confidence interval. State any confidence intervals that are not 95%.

Water Usage Reporting Form

Permit number: EPR/BJ89871Q

Operator: Fujifilm Diosynth Biotechnologies UK Limited

Facility name: Fujifilm Diosynth Biotechnologies

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year [YYYY]

Water source	Water usage (m ³)	Specific water usage (m ³ /unit)
Mains water	<i>[insert annual usage in m³ where mains water is used]</i>	<i>[insert annual usage in m³/unit where mains water is used]</i>
Site borehole	<i>[insert annual usage in m³ where water is used from a site borehole]</i>	<i>[insert annual usage in m³/unit where water is used from a site borehole]</i>
River abstraction	<i>[insert annual usage in m³ where abstracted river water is used]</i>	<i>[insert annual usage in m³/unit where abstracted river water is used]</i>
Other – <i>[specify other water source where applicable]. Add extra rows where needed]</i>	<i>[insert annual usage in m³ where applicable]</i>	<i>[insert annual usage in m³/unit where applicable]</i>
Total water usage	<i>[insert total annual water usage in m³]</i>	<i>[insert total annual water usage in m³/unit]</i>

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

Energy Usage Reporting Form

Permit number: EPR/BJ8987IQ

Operator: Fujifilm Diosynth Biotechnologies UK Limited

Facility name: Fujifilm Diosynth Biotechnologies

Energy Usage Reporting Form: version 1, 08/03/2021

Reporting of energy usage for the year [YYYY]

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/unit) ²
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Natural gas	<i>[insert annual consumption in MWh where natural gas is used]</i>	<i>[insert annual consumption in MWh/unit where natural gas is used]</i>
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	<i>[insert annual consumption in MWh where gas oil is used]</i>	<i>[insert annual consumption in MWh/unit where gas oil is used]</i>
Imported heat	<i>[insert annual consumption in MWh where heat is imported]</i>	<i>[insert annual consumption in MWh/unit where heat is imported]</i>
Other – <i>[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]</i>	<i>[insert annual consumption in MWh where applicable]</i>	<i>[insert annual consumption in MWh/unit where applicable]</i>
Electricity exported	<i>[insert annual production in MWh where electricity is exported]</i>	Not applicable
Heat exported	<i>[insert annual production in MWh where heat is exported]</i>	Not applicable

Operator's comments

Signed:

[Name]

Date:

[DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.
Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

¹ Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

² Divide energy consumption by an appropriate unit of raw material processed or product output.

Other Performance Parameters Reporting Form

Permit number: EPR/BJ8987IQ

Operator: Fujifilm Diosynth Biotechnologies UK Limited

Facility name: Fujifilm Diosynth Biotechnologies

**Other Performance Parameters Reporting Form: version 1,
08/03/2021**

Reporting of other performance parameters for the period from *[DD/MM/YY]* to *[DD/MM/YY]*

Parameter	Units
<i>[e.g. Total raw material usage]</i>	<i>[e.g. tonnes per production unit]</i>

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report the performance parameters (other than water and energy) required by your permit. Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. The parameters to report and units to be used can be found in the 'Performance parameters' table in schedule 4 of your permit. Add additional rows as necessary.