

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Olleco

Foster Street UCO Processing
Foster Street
Bootle
Liverpool
Merseyside
L20 8EX

Variation application number

EPR/LP3032NC/V009

Permit number

EPR/LP3032NC

Foster Street UCO Processing

Permit number EPR/LP3032NC

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. Only the variations specified in schedule 1 are subject to a right of appeal.

The schedules specify the changes made to the permit.

The main features of the installation are as follows:

Olleco operates a recycling facility for used cooking oils (UCOs) on Foster Street, Liverpool. The company receives UCOs from its customers (industrial food factories and retail outlets), and treats the oils by physical means to remove impurities and packaging.

The company also operates a biodiesel production process at the Birchall Street part of the installation. The biodiesel process converts treated UCO into biodiesel via a chemical process called trans-esterification.

The tonnage of used cooking oils that can be accepted for treatment at the site is 125,000 tonnes per year, with a biodiesel production capacity of 60,000 tonnes and permitted storage of UCO of 7,500 tonnes.

The main emissions to air arise from methanol recovery, operation of combustion plant, and operation of auxiliary flare.

Organic wastewater streams generated from the treatment and conversion of UCOs into biodiesel are treated in an anaerobic digestion (AD) plant at the Birchall Street site. The organic loading into the AD Plant is supplemented by a food waste 'soup'. Food waste is received at the Foster Street site, de-packaged, macerated and mixed with wastewater to form a 'soup'. The soup feedstock is pumped across a pipe-bridge to the AD Plant. Treated wastewater from the AD Plant is discharged to sewer.

Olleco operates the installation according to an environmental management system certified to ISO Standard 14001:2015.

The changes introduced by this variation (V009):

This variation is for the addition of two new boilers, each with a net rated thermal input capacity of 7MWth, and associated emission points A7 & A8.

Due to the size and age of the plant, it is classed as new medium combustion plant (MCP), with associated emission limits and monitoring requirements.

The plant replaces two boilers which weren't previously included in the permit but have since been removed.

The combined net rated thermal input of all combustion plant on site is now established at approx. 18.62MWth.

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
Waste Management Licence EAWML 50352 issued	29/06/05	Waste vegetable oil storage and treatment facility.
Variation application EPR/FP3294CT/V002 (formerly EAWML 50352)	Duly made 24/02/10	Application to increase the storage capacity and to increase the annual throughput.
Additional information received	18/06/10	Description of the state of the concreted area.
Additional information received	29/06/10	Clarification on the storage capacity.
Variation determined EPR/FP3294CT/V002	05/07/10	Varied permit issued
Variation application EPR/FP3294CT/V003	Duly made 22/11/10	Application to add the biodiesel facility.
Variation determined EPR/FP3294CT/V003	10/03/11	Varied permit issued.
Variation application EPR/FP3294CT/V004	Duly made 11/03/11	Application to increase the permitted area and to add a distillation plant and two boilers.
Variation determined EPR/FP3294CT/V004	18/04/11	Varied permit issued.
Variation application EPR/FP3294CT/V005 (variation and consolidation)	Duly made 27/07/12	Application to add tallow to the list of permitted wastes. Agency initiated change to update the permit to modern conditions.
Variation determined EPR/FP3294CT/V005	05/09/12	Varied and consolidated permit issued in modern condition format.
Transfer application EPR/LP3032NC/T001	26/06/13	Application for transfer from Sanders Products (Liverpool) to Olleco.
Transfer determined EPR/LP3032NC/T001	09/07/13	Transfer Notice issued.
Variation application EPR/LP3032NC/V002	Duly made 22/11/13	Application to vary the permit to include an aerobic digestion process and update the permit to modern conditions to include the requirements of IED.
Variation determined EPR/LP3032NC/V002	19/02/14	Varied and consolidated permit issued.
Environment Agency led variation determined EPR/LP3032NC/V003	14/03/14	Variation issued.
Application variation EPR/LP3032NC/V009/V004	Duly Made 29/09/15	
Response to schedule 5 Issued 01/10/15	16/10/15	Additional information on emissions from MONG recovery unit.
Variation determined EPR/LP3032NC/V009/V004	15/12/15	Varied and consolidated permit issued.
Application variation EPR/LP3032NC/V005	Duly Made 08/09/16	

Variation and consolidation
application number

EPR/LP3032NC/V009

Schedule 5 issued 21/09/16	29/09/16	Additional information received.
Variation determined EPR/LP3032NC/V009/V005	30/11/16	Varied and consolidated permit issued.
Application variation EPR/LP3032NC/V006	Received 21/12/16	Application to add a waste code to the anaerobic digestion plant.
Application returned EPR/LP3032NC/V006	21/02/17	Not duly made.
Application variation EPR/LP3032NC/V007	Duly made 02/03/17	Administrative variation to add nine waste codes for the anaerobic digestion plant.
Variation determined EPR/LP3032NC/V009/V007	17/03/17	Varied and consolidated permit issued.
Application variation EPR/LP3032NC/V008	Duly made 17/04/18	Application to vary the permit to extend the permitted boundary of the installation, increase the permitted storage of used cooking oils, increase the biodiesel production capacity and annual tonnage of used cooking oils, install a new hot oil heater.
Response to Schedule 5 issued 31/05/18	03/07/18	Additional information received.
Response to Schedule 5 issued 13/07/18	20/08/18	Additional information received.
Variation determined EPR/LP3032NC/V009/V008	14/09/18	Varied and consolidated permit issued.
Application EPR/LP3032NC/V009 (variation and consolidation)	Duly made 30/04/20	Application to vary the permit to add two new boilers.
Variation determined EPR/LP3032NC/V009 (Billing ref: YP3301BN)	19/10/20	Varied and consolidated permit issued.

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/LP3032NC

Issued to

Olleco (“the operator”)

whose registered office is

Battlefield Road

Shrewsbury

Shropshire

SY1 4AH

company registration number **05878742**

to operate a regulated facility at

Foster Street UCO Processing

Foster Street

Bootle

Liverpool

Merseyside

L20 8EX

to the extent set out in the schedules.

The notice shall take effect from 19/10/2020

Name	Date
Anne Lloyd	19/10/2020

Authorised on behalf of the Environment Agency

Schedule 1

Only the following conditions have been varied by the consolidated permit EPR/LP3032NC/V009 as a result of the application made by the operator:

- Condition 3.1.3 has been added to satisfy the requirements of the Industrial Emissions Directive.
- Condition 3.5.5 has been added to reflect the initial monitoring requirements as specified in the Medium Combustion Plant directive.
- Table S1.1, as referenced in conditions 2.1.1 and 3.5.5, has been amended to reflect the operation of new combustion plant as a Directly Associated Activity.
- Table S1.2, as referenced in conditions 2.3.1 and 2.3.2, has been updated to reflect the operating techniques for variation V009.
- Table S1.3, as referenced in condition 2.4.1, has been updated to reflect satisfaction of previous improvement programmes and to add IC4.
- Table S3.1, as referenced in conditions 3.1.1, 3.5.1 and 3.5.4, has been updated to reflect the addition of emission points A7 and A8.
- Table S4.1, as referenced in condition 4.2.3, has been updated to reflect the reporting requirements for emission points A7 and A8.
- Table S4.4, as referenced in conditions 4.2.2 and 4.2.3, has been updated to reflect new reporting form Air1 to capture new monitoring and reporting requirements as detailed above.
- Site plan in Schedule 7, as referenced in condition 2.2.1, has been updated to reflect the changes to emission points as detailed above.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/LP3032NC

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/LP3032NC/V009 authorising,

Olleco (“the operator”),

whose registered office is

Battlefield Road

Shrewsbury

Shropshire

SY1 4AH

company registration number **05878742**

to operate an installation at.

Foster Street UCO Processing

Foster Street

Bootle

Liverpool

Merseyside

L20 8EX

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

Name	Date
Anne Lloyd	19/10/2020

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.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

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”).
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 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 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 tables S2.1 and S2.2; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.4 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.

2.4 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.

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 and S3.2.
- 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 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.

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency 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 the Environment Agency.

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 and S3.2
- (b) process monitoring specified in table 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 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 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 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.5.5 For plant classed as MCP, under activity reference AR3 in Table S1.1; the first monitoring measurements shall be carried out 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 the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
- (b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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.

4.2 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.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

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 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.

4.3.4 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.

4.3.5 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.6 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 4.1 Part A(1) (a) (ii) <i>Producing organic chemicals such as organic compounds containing oxygen</i>	The production of biodiesel and ultra-biofuel by the trans-esterification/esterification method from waste vegetable oil and rendered animal fat. Purification of the biodiesel by distillation.	From receipt of raw materials and waste to despatch of product and wastes from the installation. Includes pre-treatment of waste oils through filtration and centrifugation. Waste types as specified in Table S2.1 of this permit. Total biodiesel production capacity is limited to 60,000 tonnes of biodiesel per year.
AR2	Section 5.4 Part A(1) (b) (i) <i>Recovery or a mix or recovery and disposal of non-hazardous waste with a capacity exceeding 100 tonnes per day involving biological treatment</i>	Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 100 tonnes per day involving anaerobic digestion of permitted waste.	From the receipt of permitted waste, the anaerobic digestion of permitted waste, through to dispatch of effluent wastewater to the effluent treatment plant and export of organic waste from the installation. Waste types as specified in Table S2.2 of this permit and suitable waste produced at the installation.
Directly Associated Activity			
AR3	Steam and hot oil generation	Combustion of gas in: 1 x thermal hot oil boiler and 1 x steam boiler with a combined net rated thermal input of <2MW. 2 x boilers (MCP) with a net rated thermal input of 7MW each (14MWth in total). 1 x hot oil heater with net rated thermal input of 1.4 MWth	From receipt of gas to combustion of gas and emission of combustion gases
AR4	Biogas combustion	Combustion of biogas in a combined heat and power (CHP) engine with a net rated thermal input of 1.22 MWth	From the receipt of biogas produced at the on-site anaerobic digestion process to combustion via a CHP engine with the release of combustion gases

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR5	Emergency flare operation	Use of an auxiliary flare required only for periods of breakdown or maintenance of the CHP engine	From the receipt of biogas produced on-site to combustion with the release of combustion gases.
AR6	Biogas storage	Storage of biogas produced from anaerobic digestion of permitted waste on site, in a flexible bio-dome above the digester tank	From the storage of biogas produced from anaerobic digestion to point of combustion
AR7	Sludge dewatering	Post-treatment of sludge to remove water content	From input of sludge to output of dewatered sludge and removed water
AR8	Effluent treatment	Physico-chemical treatment of effluent wastewater through dissolved air flotation and cavitation air flotation	Treatment of effluent wastewater and dispatch to sewer
AR9	Effluent treatment	Biological treatment of effluent wastewater through suspended air flotation	Treatment of effluent wastewater and dispatch to sewer
AR10	Methanol distillation column	Operation of the methanol distillation column	Recovered methanol is purified, generating a high grade methanol for re-use in the biodiesel plant
AR11	MONG (material organic non-glycerol) recovery unit	Operation of the MONG recovery unit	The MONG recovery process comprises two main sub-process lines; methanol recovery and acidification and MONG splitting
AR12	Cooling system	Heat removal from the process plant through evaporative cooling system	Evaporative cooling system provides cooling to biodiesel production activity and associated activities consisting of distillation, degassing and condensation of methanol and water.
AR13	Wiped Film Evaporator system	Degassing of biodiesel product and evaporation of methanol and water	Biodiesel is degassed in two degassing stages under vacuum conditions, methanol and water are evaporated from the biodiesel in a wiped film evaporator heated with hot oil. Methanol and water are re-condensed as distillate by cooling and recompression of gaseous phase separated under vacuum.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Section 2 of the supporting documentation submitted with the permit variation application	20/10/10
Application	Section 3 of the supporting documentation submitted with the permit variation application	11/03/11
Variation application EPR/FP3294CT/V005	Section 2 of the supporting documentation submitted with the permit variation application	29/06/12
Variation application EPR/LP3032NC/V002	Responses to Part C3 section 3 of the application form and referenced supporting documentation. Air Quality Modelling Assessment received 22/11/13	27/09/13
Agency led variation EPR/LP3032NC/V003	Updated AD site layout plan and cover letter.	25/02/14
Variation application EPR/LP3032NC/V009/V004	Part C2 and C3 of the application form, referenced supporting documentation	24/07/15
Variation application EPR/LP3032NC/V009/V004 response to additional information request	Additional information on secondary containment, fire safety and baseline data.	28/09/15
Variation application EPR/LP3032NC/V009/V004 response to schedule 5 issued 01/10/15	Additional information on emissions from MONG recovery unit.	16/10/15
Variation application EPR/LP3032NC/V009/V005	Application Form EPC: Application for an environmental permit – Part C3 varying a bespoke installation permit, Section 3	08/09/16
Variation application EPR/LP3032NC/V009/V005	Supporting Information – Application for a Permit Variation Report, May 2016	08/09/16
Variation application EPR/LP3032NC/V009/V005	Schedule 5 response, Point 2; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/V009/V005	Schedule 5 response, Appendix 1, 2, 3, 4 and 5; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/V009/V005	Schedule 5 response, Point 4 and Appendix 6; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/V009/V005	Schedule 5 response, Point 7; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/V009/V008	Application Form: Part C3 – Variation to a bespoke installation permit, Section 3 (version dated 13/04/18) and application support documents: <ul style="list-style-type: none"> - Permit Variation Application - Biodiesel Expansion, dated 27/02/2018 - Letter dated 16/04/18, subject: 'Application reference: EPR/LP3032NC/V008, Olleco Foster Street', as supplemented and amended by subsequent documents provided in response to Schedule 5 Notices issued 31/05/18 and 13/07/18.	Duly made 17/04/18

Table S1.2 Operating techniques		
Description	Parts	Date Received
Variation application EPR/LP3032NC/V009/V008 response to Schedule 5 Notice issued 31/05/18	- Document titled 'Response to Schedule 5 Notice', dated July 2018, providing additional information, amending the site arrangement layout included in the V008 application documents and including in Appendixes 3 and 4 demonstration of the use of applicable best available techniques and appropriate measures for handling of wastes; Odour Management Plan, dated July 2018	03/07/18
Variation application EPR/LP3032NC/V009/V008 response to Schedule 5 Notice issued 13/07/18	Document titled 'Response to Schedule 5 Notice', dated 20/08/18, including additional information on operating techniques and demonstration of compliance with the applicable BAT conclusions of the 'Commission Implementing Decision (EU) 2017/2117 of 21 November 2017 establishing best available techniques (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for the production of large volume organic chemicals'.	20/08/18
Variation application EPR/LP3032NC/V009	Application submission supporting information titled: 'Permit Variation Application – UCO Boilers' dated April 2020 'Demonstration of Best Available Techniques' dated April 2020.	30/04/2020

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC 1 & 2	Marked as complete in previous permit (V008)	N/A
IC3	The operator shall monitor for methanol from emission point V1 and carry out a risk assessment using Environment Agency guidance H1. Monitoring should be in accordance with Environment Agency guidance note M2. The operator shall submit a report to the Environment Agency summarising the monitoring results and the impact assessment.	Complete
IC4	In order to establish a baseline emissions profile for the site as permitted, the operator shall undertake an aerial emissions modelling assessment. The modelling assessment report shall be submitted to the Environment Agency for review. The report shall draw conclusions regarding the impact of the overall emissions from the site, to establish a baseline, and to have regard for the impact on nearby human receptors, ecological receptors and the objectives of the Liverpool City Air Quality Management Area (AQMA) Action Plan.	19/02/2021 or as agreed in writing by the Environment Agency.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Permitted waste types and quantities for the waste fat storage and treatment and for the production of biodiesel	
<p>The total quantity of used cooking oils and waste fat accepted for the production of biodiesel shall be less than 125,000 tonnes per year.</p> <p>The maximum amount of used cooking oils and waste fat stored within the facility at any time shall be less than 7,500 tonnes, including 5,000 tonnes of used cooking oils in drums and tubs of butter on pallets within the warehouses B1, B2 and B3 (as shown in the site plan layout of Schedule 7) and 1,500 of used cooking oils within processing equipment.</p> <p>Hazardous wastes are not permitted.</p>	
Waste code	Description
02	Wastes from Agriculture, Horticulture, Aquaculture, Forestry, Hunting and Fishing, Food Preparation and Processing
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 99	wastes not otherwise specified (rendered animal fat - tallow)
02 02 03	materials unsuitable for consumption or processing
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	materials unsuitable for consumption or processing
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
08	Wastes From The Manufacture, Formulation, Supply And Use (Mfsu) Of Coatings (Paints, Varnishes And Vitreous Enamels), Adhesives, Sealants And Printing Inks
08 03	wastes from MFSU of printing inks
08 03 99	wastes not otherwise specified
10	Wastes From Thermal Processes
10 01	wastes from power stations and other combustion plants (except 19)
10 01 99	wastes not otherwise specified
20	Municipal Wastes (Household Waste and similar Commercial Industrial and Institutional Wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 25	edible oil and fat

Table S2.2 Permitted waste types and quantities for the waste storage and treatment by Anaerobic Digestion	
<p>The total quantity of waste accepted shall not exceed 10,000 tonnes per year. The total quantity of food waste accepted for the purpose of the anaerobic digestion process shall not exceed 3,120 tonnes a year. Maximum amount of food waste stored at any one time shall be 50 tonnes. Hazardous wastes are not permitted.</p>	
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 03	materials unsuitable for consumption or processing
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	materials unsuitable for consumption or processing
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing
02 06	wastes from the baking and confectionery industry
02 06 01	materials unsuitable for consumption or processing
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 02	wastes from spirits distillation
13	Oil Wastes and Wastes of Liquid Fuels (except edible oils, and those chapters 05,12 and 19)
13 07	wastes of liquid fuels
13 07 03	other fuels (glycerol)
19	Wastes from Waste Management Facilities, Off-site Waste Water Treatment Plants and the Preparation of Water Intended for Human Consumption and Water for Industrial Use
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous food and drink wastes (food waste soup)
19 02 06	sludges from the used cooking oil treatment process, that have received physico/heat treatment only
19 05	wastes from aerobic treatment of solid wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 06	wastes from anaerobic treatment of waste
19 06 06	digestate from anaerobic treatment of animal and vegetable waste
19 08	wastes from waste water treatment plants not otherwise specified
19 08 05	sludges from treatment of urban waste water for seeding of digester
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12	sludges from biological treatment of industrial waste water other than those containing dangerous substances
20	Municipal Wastes (Household Waste and similar Commercial Industrial and Institutional Wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 08	biodegradable kitchen and canteen waste

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
Point A1 on point source emission plan in Schedule 7	Methanol recovery unit stack	Methanol	No limit set	---	---	---
Point A2 on point source emission plan in Schedule 7	Thermal hot oil boiler	Combustion gases	No limit set	--	--	--
Point A3 on point source emission plan in Schedule 7	Steam boiler	Combustion gases	No limit set	--	--	--
Point A4 on point source emission plan in Schedule 7	CHP engine stack	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly average	Annually	BS EN 14792
		Carbon monoxide	1,400 mg/m ³			BS EN 15058
		Total Volatile Organic Compounds (VOCs)	1,000 mg/m ³			BS EN 12619
		Sulphur dioxide	350 mg/m ³			BS EN 14791
Point A5 on point source emission plan in Schedule 7	Flare stack	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	No limit set	--	--	--
		Carbon monoxide				
		TVOCs				
		Sulphur dioxide				
Point A6 on point source emission plan in Schedule 7	Natural gas fired hot oil heater	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100 mg/m ³	Hourly average	Every three years	BS EN 14792
		Carbon monoxide	No limit set			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
Point A7 on point source emission plan in Schedule 7	Natural gas fired boiler No.1 (7MWth)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100 mg/m ³	Hourly average	Every three years	BS EN 14792
		Carbon monoxide	No limit set			BS EN 15058
Point A8 on point source emission plan in Schedule 7	Natural gas fired boiler No.2 (7MWth)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	100 mg/m ³	Hourly average	Every three years	BS EN 14792
		Carbon monoxide	No limit set			BS EN 15058
Vent V1 on point source emission plan in Schedule 7	Buffer tank system	Methanol and VOCs	No limit set	--	--	--
Vent V2 on point source emission plan in Schedule 7	Vacuum	VOCs	No limit set	--	--	--
Vent V3 on point source emission plan in Schedule 7	Post Methanol Recovery Tank	VOCs	No limit set	--	--	--
Vent V4 on point source emission plan in Schedule 7	Light Phase Tank	VOCs	No limit set	--	--	--
Vent V5 on point source emission plan in Schedule 7	Heavy Phase Tank	VOCs	No limit set	--	--	--
Vent V6 on point source emission plan in Schedule 7	Local Exhaust Ventilation serving heated drying tanks	VOCs	No limit set	--	--	--
		Water Vapour				
Vent V7 on point source emission plan in Schedule 7	Vent from Wiped Film Evaporator system	Air incondensable gases	No limit set	--	--	--

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
Vents V8, V9, V10 on point source emission plan in Schedule 7	Biodiesel settling tanks breathing vents	Traces of Methanol and VOCs	No limit set	--	--	--
Vents V11, V12 on point source emission plan in Schedule 7	Vents from vacuum dryer skids vents	Water vapour, traces of Methanol and VOCs	No limit set	--	--	--
Vent V13 on point source emission plan in Schedule 7	Vent from UCO vacuum dryer	Water vapour	No limit set	--	--	--

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on point source emission plan in Schedule 7	Anaerobic digestion plant	No parameters set	No limit set	--	--	--

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biogas from digesting tanks; Biogas storage tank	Flow	Continuous	In accordance with EU Weights and Measures Regulations	--
Biogas from digesting tanks; Biogas storage tank	Methane	Continuous	--	
Biogas from digesting tanks; Biogas storage tank	Hydrogen sulphide	Continuous	--	
Biogas from digesting tanks; Biogas and digestate from the digestate storage tank); waste reception areas and external storage areas	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary using methods outlined in the Environment Agencies H4 guidance note on Odour management.

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
V6 - Production of VOCs; Heated Drying Tanks, Unit 4	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary using methods outlined in the Environment Agencies H4 guidance note on Odour management.

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	A4	Every 12 months	1 January
	A6, A7 & A8	Every 3 years	1 January

Table S4.2: Annual production/treatment	
Parameter	Units
Biodiesel	tonnes
Ultra biofuel	tonnes
Electricity generated	MWh

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Glycerol waste generated	Annually	tonnes per 1 tonne of biodiesel
Other waste generated	Annually	tonnes per 1 tonne of biodiesel
Energy usage	Annually	MWh
CHP gas engine usage	Annually	hours
Flare operation	Annually	hours

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	19/10/20
Waste	Form waste 1 or other form as agreed in writing by the Environment Agency	18/04/11
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	18/04/11
Performance parameters	Form performance 1 or other form as agreed in writing by the Environment Agency	19/02/14

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	
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 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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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) 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	
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 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.

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“Pests” means Birds, Vermin and Insects.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

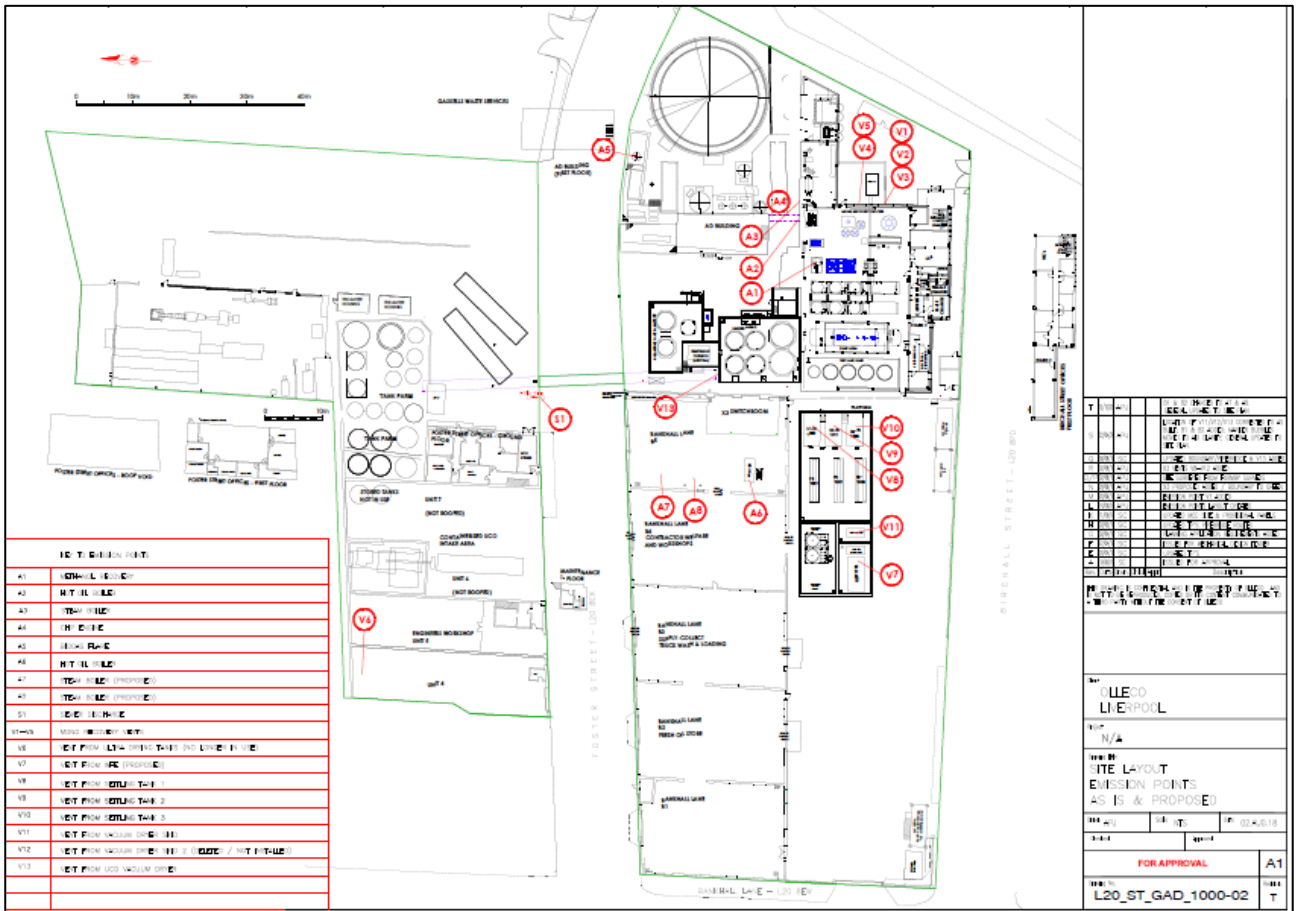
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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 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 Decem

Schedule 7 – Site plan



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END OF PERMIT