

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Olleco

Foster Street
Bootle
Liverpool
Merseyside
L20 8EX

Variation application number

EPR/LP3032NC/V008

Permit number

EPR/LP3032NC

Olleco, Foster Street

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.

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.

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.

This variation to the existing permit is:

- To extend the permitted boundary to include four adjacent existing industrial warehouses and an associated service yard off Bankhall Lane;
- To increase the permitted storage of UCO from 2,400 tonnes to 7,500 tonnes, including storage of 5,000 tonnes of UCO in drums and tubs of butter on pallets within the new warehouses;
- To relocate the vacuum flash dryer that is currently located in the fuel preparation plant at the Foster Street site to the Birchall Street site and carry out process modification to this unit in order to maximise the drying capability and reduce the water content of the incoming UCO;
- To increase the tonnage of used cooking oils that can be accepted for treatment at the site from 75,000 tonnes to 125,000 tonnes per year to sustain the increased biodiesel production capacity at the installation;
- To increase the biodiesel production capacity from 25,000 to 60,000 tonnes per year by installing the associated equipment, including new esterification and transesterification plug flow reactors, new wiped film evaporator separation and condensation systems along with the directly associated hot oil heating and evaporative cooling tower systems;
- To add one new stationary emission point to atmosphere from the new gas fired hot oil heater with a net rated thermal input of 1.4 MWth.

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

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
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/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/V004 (Payment ref: XP3933RP)	15/12/15	Varied and consolidated permit issued.
Application variation EPR/LP3032NC/V005	Duly Made 08/09/16	
Schedule 5 issued 21/09/16	29/09/16	Additional information received.
Variation determined EPR/LP3032NC/V005 (Payment ref: MP3635DY)	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	21/02/17	Not duly made.

Status log of the permit		
Description	Date	Comments
EPR/LP3032NC/V006		
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/V007 (Payment ref: TP3438YL)	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/V008	14/09/18	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 and consolidates

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

**Olleco
Foster Street
Bootle
Liverpool
Merseyside
L20 8EX**

to the extent set out in the schedules.

The notice shall take effect from 14/09/2018.

Name	Date
Tom Swift	14/09/2018

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

- Schedule 1, Table S1.1 Activities, as referred to by condition 2.1.1
- Schedule 7, Installation Boundary Plan, as referred to by condition 2.2.1
- Schedule 1, Table S1.2 Operating techniques, as referred to by condition 2.3.1
- Schedule 1, Tables S1.4A, S1.4B Pre-operational measures and Pre-operational measures for future development, as referred to by conditions 2.5.1 and 2.5.2
- Schedule 3, Table S3.1 Point source emissions to air, as referred to by conditions 3.1.1, 3.1.2 and 3.5.1
- Condition 3.6, Pests
- Schedule 4, Table S4.1, as referred to by condition 4.2.3

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/V007 authorising,

Olleco ("the operator"),

whose registered office is

**Battlefield Road
Shrewsbury
Shropshire
SY1 4AH**

company registration number **05878742**

to operate an installation at

**Olleco
Foster Street
Bootle
Liverpool
Merseyside
L20 8EX**

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

Name	Date
Tom Swift	14/09/2018

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”).

2.2 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 (a) 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.
- (b) 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 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.
- 2.3.2 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.1 and S2.2 and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.3 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.

- 2.3.4 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.

2.5 Pre-operational conditions

- 2.5.1 The operator shall complete the improvements specified in schedule 1 table S1.4A by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.5.2 The operations specified in schedule 1 table S1.4B 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 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.

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.
- 3.2.4 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

3.3 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 requirements 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 and S3.2 unless otherwise agreed in writing by the Environment Agency.

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 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
- (i) inform 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) in the event 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) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, where the information relates to the breach of a limit specified in the permit, 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 listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 4.1 Part A(1)(a)(ii)	<p>The production of biodiesel and ultra-biofuel by the trans-esterification/esterification method from waste vegetable oil and rendered animal fat.</p> <p>Purification of the biodiesel by distillation.</p>	<p>From receipt of raw materials and waste to despatch of product and wastes from the installation.</p> <p>Includes pre-treatment of waste oils through filtration and centrifugation.</p> <p>Waste types as specified in Table S2.1 of this permit.</p> <p>Total biodiesel production capacity is limited to 60,000 tonnes of biodiesel per year.</p>
Section 5.4 Part A(1)(b)(i)	<p>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.</p>	<p>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.</p> <p>Waste types as specified in Table S2.2 of this permit and suitable waste produced at the installation.</p>
Directly Associated Activity		
Steam generation and hot oil heating	<p>Combustion of gas in:</p> <ul style="list-style-type: none"> - Two boilers with total thermal input of <2MW - One hot oil heater with net thermal input of 1.4 MWth 	<p>From receipt of gas to combustion of gas and emission of combustion gases</p>
Biogas combustion	<p>Combustion of biogas in a combined heat and power (CHP) engine with an thermal input of 1.22 MWth</p>	<p>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</p>
Emergency flare operation	<p>Use of an auxiliary flare required only for periods of breakdown or maintenance of the CHP engine</p>	<p>From the receipt of biogas produced on-site to combustion with the release of combustion gases</p>
Biogas storage	<p>Storage of biogas produced from anaerobic digestion of permitted waste on site, in a flexible bio-dome above the digester tank</p>	<p>From the storage of biogas produced from anaerobic digestion to point of combustion</p>
Sludge dewatering	<p>Post-treatment of sludge to remove water content</p>	<p>From input of sludge to output of dewatered sludge and removed water</p>

Table S1.1 activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Effluent treatment	Physico-chemical treatment of effluent wastewater through dissolved air flotation and cavitation air flotation	Treatment of effluent wastewater and dispatch to sewer
Effluent treatment	Biological treatment of effluent wastewater through suspended air flotation	Treatment of effluent wastewater and dispatch to sewer
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
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
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.
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/V004	Part C2 and C3 of the application form, referenced supporting documentation	24/07/15
Variation application EPR/LP3032NC/V004 response to additional information request	Additional information on secondary containment, fire safety and baseline data.	28/09/15

Table S1.2 Operating techniques		
Variation application EPR/LP3032NC/V004 response to schedule 5 issued 01/10/15	Additional information on emissions from MONG recovery unit.	16/10/15
Variation application EPR/LP3032NC/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/V005	Supporting Information – Application for a Permit Variation Report, May 2016	08/09/16
Variation application EPR/LP3032NC/V005	Schedule 5 response, Point 2; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/V005	Schedule 5 response, Appendix 1, 2, 3, 4 and 5; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/V005	Schedule 5 response, Point 4 and Appendix 6; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/V005	Schedule 5 response, Point 7; report dated September 2016	29/09/16
Variation application EPR/LP3032NC/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
Variation application EPR/LP3032NC/V008 response to Schedule 5 Notice issued 31/05/18	<ul style="list-style-type: none"> - 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/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

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall monitor for methanol from emission point A1 and carry out an impact assessment using Environment Agency guidance H1. Monitoring shall 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

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC2	The Operator shall submit a report to the Environment Agency outlining how the performance of the anaerobic digester compares to that recorded during the trial detailed in Appendix 1 of application EPR/LP3032NC/V002.	Complete
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.	Within three months of the commencement of operation of the MONG facility.

Table S1.4A Pre-operational measures

Reference	Pre-operational measures
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Table S1.4B Pre-operational measures for future development

Reference	Operation	Pre-operational measures
PO1	Expansion of the biodiesel production activity by capacity increase from 25,000 to 60,000 tonnes per year, under permit variation V008	<p>No later than three months before the start of construction activities for the expansion of the biodiesel production plant under variation V008, the Operator shall submit a written report detailing the final arrangement of the containment and drainage systems within the process areas in the new service yard off Bankhall Lane and confirming the relevant operating techniques included in the application documents and replies to Schedule 5 Notices.</p> <p>The report shall include the following information (not limited to):</p> <ul style="list-style-type: none"> - The final sizing calculation for the dimensions of the bunded areas showing how these comply with the requirements of the 'The Control of Pollution (Oil Storage) (England) Regulations', 2001 (for the inventory of biodiesel) and the guidance provided in CIRIA Report C736. This item shall include detailed information such as the rainfall allowance included in the design, the freeboard for fire-fighting foam, the allowance for dynamic surge, the clearance from the edge of the bund to prevent jetting. - A confirmation that suitable construction standards (as per 'The Control of Pollution (Oil Storage) (England) Regulations' and CIRIA Report C736) are adopted to provide impermeable surfacing in the process bunded areas (for example: use of suitable waterstops at structural joints, minimisation of wall penetration and use of suitable, fire resistant, sealants where wall penetration is allowed by the regulatory requirements and standards and cannot be avoided); - A drawing showing the drainage arrangement to collect and pump the surface run-off water collected in the new process bunded areas to the onsite anaerobic digestion. <p>The Operator shall obtain the Environment Agency's written approval to this report prior to the start of construction activities covered by permit variation V008.</p>

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

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.

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.

Hazardous wastes are not permitted.

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

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.

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	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
Point A1 on point source emission plan in Schedule 7	Methanol	Methanol recovery unit stack	No limit set	---	---	---
Point A2 on point source emission plan in Schedule 7	Combustion gases	Thermal hot oil boiler	No limit set	---	---	---
Point A3 on point source emission plan in Schedule 7	Combustion gases	Gas fired steam boiler	No limit set	---	---	---
Point A4 on point source emission plan in Schedule 7	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	CHP engine stack	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	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Flare stack	No limit set	--	--	--
	Carbon monoxide					
	Total VOCs					
	Sulphur dioxide					
Point A6 on point source emission plan in Schedule 7	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Natural gas fired hot oil heater	100 mg/m ³	Hourly average	Every three years	BS EN 14792
	Carbon monoxide		--			BS EN 15058
Vent V1 on point source emission plan in Schedule 7	Methanol and VOCs	Buffer tank system	No limit set	--	--	--
Vent V2 on point source emission plan in Schedule 7	VOCs	Vacuum	No limit set	--	--	--
Vent V3 on point source emission plan in Schedule 7	VOCs	Post Methanol Recovery Tank	No limit set	--	--	--

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
Vent V4 on point source emission plan in Schedule 7	VOCs	Light Phase Tank	No limit set	--	--	--
Vent V5 on point source emission plan in Schedule 7	VOCs	Heavy Phase Tank	No limit set	--	--	--
Vent V6 on point source emission plan in Schedule 7	VOCs	Local Exhaust Ventilation serving heated drying tanks	No limit set	--	--	--
Vent V6 on point source emission plan in Schedule 7	Water Vapour	Local Exhaust Ventilation serving heated drying tanks	No limit set	--	--	--
Vent V7 on point source emission plan in Schedule 7	Air incondensable gases	Vent from Wiped Film Evaporator system	No limit set	--	--	--
Vents V8, V9, V10 on point source emission plan in Schedule 7	Traces of Methanol and VOCs	Biodiesel settling tanks breathing vents	No limit set	--	--	--
Vents V11, V12 on point source emission plan in Schedule 7	Water vapour, traces of Methanol and VOCs	Vents from vacuum dryer skids vents	No limit set	--	--	--
Vent V13 on point source emission plan in Schedule 7	Water vapour	Vent from UCO vacuum dryer	No limit set	--	--	--

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on point source emission plan in Schedule 7	--	Anaerobic digestion plant	--	--	--	--

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
Biogas from digesting tanks; Biogas storage tank	Flow	Continuous	In accordance with EU Weights and Measures Regulations	--

Table S3.3 Process monitoring requirements				
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.
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	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	06/08/18
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	
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 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.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 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

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

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

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“year” means calendar year ending 31 December.

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:

- a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels.
- b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.
- c) In relation to emissions from spark ignition engines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 5% dry for liquid and gaseous fuels;
- d) In relation to emissions from compression ignition engines, 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.

Schedule 7 – Installation Boundary Plan



END OF PERMIT