

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

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Nestle UK Ltd

Nestle Boiler Plant Tutbury

Marston Lane  
Tutbury  
Burton-on-Trent  
Staffordshire  
DE13 9LY

Variation notice number  
EPR/BJ9576IZ/V005

Permit number  
EPR/BJ9576IZ

# Nestle Boiler Plant Tutbury

## Permit number EPR/BJ9576IZ

### Introductory note

#### **This introductory note does not form a part of the notice.**

The following notice gives notice of the variation and consolidation of an environmental permit.

The consolidation is for an installation permit where the main activity is a combustion activity under **1.1 A (1) (a)** for combustion facilities: Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts. This is at the operator's coffee manufacturing facility in the village of Tutbury in Staffordshire.

The total installation combustion thermal input capacity is now increased to **73.6 MW**. After 2014 commissioning of new facilities and decommissioning of two boilers associated with emission point A1 the total thermal input will be **55 MW**.

There are no designated European habitat sites within relevant screening distances. The Old River Dove, Marston on Dove Site of Special Scientific Interest is located 1.9 km south east of the site.

The permit includes modern conditions to ensure compliance with latest legislation.

Overall the variation is linked to an expansion of coffee manufacturing facilities at the site; the coffee manufacturing facility remains below the relevant food and drink scheduled activity threshold.

#### The variation to this permit covers the following areas:

- Additional combustion facilities (Two new roasters, one new Fluid Bed boiler and two new auxiliary boilers). Longer term existing auxiliary boilers (emission point A1) will be removed after new auxiliary boilers are commissioned

In addition to the combustion scheduled activity the effluent treatment facilities has been added with this variation as follows:

- Effluent Treatment facilities – primary and secondary (final filtration) effluent treatment for disposal. The installation effluent flow is estimated to be of a flow rate of 200 m<sup>3</sup>/day after variation changes. This means it is a scheduled activity 5.4 A (1) (a) (ii) for non-hazardous physico-chemical treatment for disposal.

#### Directly associated activities to be added include:

- Storage and handling of raw materials, including coffee grounds;
- Storage and handling of wastes;
- De-watering process and associated tanks; and
- Boiler water pre-treatment.

The installation boundary has increased to represent the above additions to the installation activities.

The permit includes updates to:

- Activities Table S1.1.
- Operating Techniques within Table S1.2.
- Three new improvement conditions within Table S1.3.
- Updates to Monitoring emissions and emission limit values in Table S3.1.
- New surface water and effluent emission points in Tables S3.2 and S3.3.
- Reporting forms updated in Table S4.1 and Table S4.3.

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.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application BJ9576IZ (EPR/BJ9576IZ/A001)	Duly made 29/12/2000	
Additional information	Request dated 02/08/2001	30/10/2001
Additional information	Request dated 08/08/2001	30/10/2001
Permit determined (EPR/BJ9576IZ)	23/02/2003	
Variation CP3532XQ (EPR/BJ9576IZ/V002)	Duly made 04/04/2008	
Variation CP3532XQ (EPR/BJ9576IZ/V002)	Issued 25/06/2008	
Variation XP3134GQ (EPR/BJ9576IZ/V003)	Received 19/12/2008	
Variation XP3134GQ (EPR/BJ9576IZ/V003)	Issued 15/01/2009	
Variation (EPR/BJ9576IZ/V004)	Duly made 06/10/2010	
Variation issued (EPR/BJ9576IZ/V004)	18/10/2010	
Variation (EPR/BJ9576IZ/V004)	Duly made 10/10/13	
Schedule 5 response	15/01/14	
Variation issued (EPR/BJ9576IZ/V005)	14/02/14	

End of introductory note.

## Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

**Permit number**

**EPR/BJ9576IZ**

**issued to**

**Nestle UK Ltd** ("the operator")

whose registered office is

**1 City Place**

**Gatwick**

**RH6 0PA**

company registration number **51491**

to operate a regulated facility at

**Nestle Boiler Plant Tutbury**

**Marston Lane**

**Tutbury**

**Staffordshire**

**DE13 9LY.**

to the extent set out in the schedules.

The notice shall take effect from 14/02/2014

Name

Date

**Anne Nightingale**

**14/02/2014**

Authorised on behalf of the Environment Agency

**Schedule 1**

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

**Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

The Environmental Permitting (England and Wales) Regulations 2010

**Permit number**

**EPR/BJ9576IZ**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BJ9576IZ/V005 authorising,

**Nestle UK Ltd** ("the operator"),

whose registered office is

**1 City Place**

**Gatwick**

**RH6 0PA**

company registration number **51491**

to operate a regulated facility at

**Nestle Boiler Plant Tutbury**

**Marston Lane**

**Tutbury**

**Staffordshire**

**DE13 9LY.**

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

Name	Date
<b>Anne Nightingale</b>	<b>14/02/14</b>

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 and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

### 1.2 Energy efficiency

1.2.1 The operator shall:

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

### 1.3 Efficient use of raw materials

1.3.1 The operator shall:

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

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

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

## **2 Operations**

### **2.1 Permitted activities**

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

### **2.2 The site**

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

### **2.3 Operating techniques**

- 2.3.1
- (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 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.

2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

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

# **3 Emissions and monitoring**

## **3.1 Emissions to water, air or land**

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Periodic monitoring shall be carried out at least 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;

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 3.3.1 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 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3 table S3.1; the Continuous Emission Monitors shall be used such that;
- (a) the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed the following percentages:
- Oxides of nitrogen (NO & NO<sub>2</sub> expressed as NO<sub>2</sub>) 20%
  - Particulate matter 30%

## 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;
- 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 S4.2 ; and

- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

### 4.3 Notifications

- 4.3.1 (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, 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

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 “without delay”, in which case it may be provided by telephone.

# Schedule 1 - Operations

S1.1 Activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
1.1 A(1) (a) : Burning any fuel in an appliance with a rated thermal input of 50 or more megawatts	Gas fired combustion facilities and combustion of waste coffee grounds	Combustion facilities include <ul style="list-style-type: none"> <li>• Roasters ( 5 of)</li> <li>• (Air Heater)</li> <li>• Auxiliary boilers ( 2 new units and one existing facility)</li> <li>• Two Fluid Bed boilers utilising biomass fuel.</li> </ul> Total maximum net thermal input capacity <b>73.6 MW</b> ; including <b>18.6 MW</b> thermal input for A1 boiler to be decommissioned after new facilities commissioning completion.
5.4 A(1)(a) (ii) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day (or 100 tonnes per day if the only waste treatment is anaerobic digestion) involving one or more of the following activities and excluding activities covered by Council directive 91/271/EEC concerning urban waste water treatment - physico-chemical treatment;	Waste Water Holding treatment and discharge	From waste arising in the process to discharge to sewer. <i>Maximum installation activities effluent emission flow 200 m<sup>3</sup>/day.</i>
Directly Associated Activities		
Coffee ground dewatering	Usage of filtration facilities for coffee bean moisture content reduction	From receipt of material to post filtration storage
Boiler water pre-treatment	Reverse Osmosis Plant for boiler water pre-treatment	From receipt of water to transfer to Boiler facilities and effluent discharge to sewer.
Raw materials handling and storage	Spent coffee grounds and other raw materials handling and storage	Spent coffee grounds storage and handling for usage in Fluid Bed Boiler as biomass plus all associated combustion plant and effluent treatment raw material storage and handlings
Waste handling and storage	Waste handling and storage from combustion and effluent treatment activities	All waste stream storage and handling as outlined in Table 3.13 of the application EPR/BJ9676IZ/V005

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application BJ9576IZ (EPR/BJ9576IZ/A001)	The response to questions 2.3 given in Section 2.3 of the application	29/12/00
Response to Schedule 4 Part 1 Notice	Response to question 8	01/11/01
Variation application EPR/BJ9576IZ/V004	The sequence of events for start-up and shut-down of boiler number 4, contained in document 0910VarRev2	06/10/10
Variation application EPR/BJ9576IZ/V005	Main application supplementary document plus Appendix B site plans, Appendix F Site Condition Report and duly making responses.	Duly made 10/10/13
Schedule 5 response	All	15/01/14

Table S1.3 Improvement Program		
Reference	Requirement	Date
IC3	<p>The Operator shall submit a written report to the Environment Agency on the commissioning of the new facilities introduced with this variation EPR/BJ9576IZ/V005. The report shall summarise the environmental performance of the facilities as installed against the design parameters set out in the Application.</p> <p>The commissioning report shall include as a minimum :</p> <ul style="list-style-type: none"> <li>• Actual atmospheric emissions from the new emissions against assumptions utilised in application air dispersion modelling. Atmospheric emission monitoring shall reflect both normal and start/shutdown operating conditions for all relevant parameters (monitoring shall have regard of Environment Agency MCERTS guidance M2 monitoring of stack emissions to air). Monitoring to include continuous and extractive sampling. Each relevant parameter to have extractive monitoring to be completed a minimum of three times.</li> <li>• Actual Effluent monitoring and assessment of flow rate linked to installation activities for S1 discharge to show compliance with application design standards. Monitoring shall cover a minimum of one month with all new facilities operational</li> <li>• Summary of optimisation of operating techniques based on commissioning experience to minimise environmental impacts.</li> </ul> <p>The oxides of nitrogen daily average Emission Limit Value for new A5 Fluid Bed Boiler is to be confirmed in writing by the Environment Agency after review of operator IC3 submission.</p>	30/06/15.
IC4	<p>The Operator shall carry out a noise assessment for complete facilities linked to variation changes in accordance with the requirements of BS4142: 1997 – Method for Rating Industrial Noise affecting mixed Residential and Industrial Areas. The assessment shall include impact of operations during daytime and night-time periods, in comparison with estimated noise impact within application EPR/BJ9576IZ/V005. This shall include a review of noise levels at two closest receptors detailed in variation before and after variation changes. A report summarising the outcome of the assessment plus the updating of the application noise management plan and including a timetable for the implementation of any improvements identified shall be submitted to the Environment Agency.</p>	30/06/15
IC5	<p>The Operator shall undertake commissioning stack odour monitoring to ensure odour levels are in line with those as submitted in their application odour modelling.</p> <p>The report to include as a minimum:</p> <ul style="list-style-type: none"> <li>•Monitoring – the scope shall as a minimum be in line with section 8.4 of application Odour Management Plan (OMP) covering all new facilities and existing FBB plus effluent drum filter vent. The monitoring techniques shall have regard of Environment Agency MCERTS guidance M2 monitoring of stack emissions to air. Each stack to have a minimum of three extractive samples.</li> <li>•Modelling – A modelling report shall be presented based on actual monitoring data to show installation activities odour levels at installation boundary are below 6 oue/m<sup>3</sup> threshold taken from our H4 guidance</li> <li>•Improvements –The report shall provide an update OMP including improvements from commissioning experience and any further improvements with timescales. The OMP shall provide a proposal for the scope and frequency of regular odour stack monitoring.</li> </ul> <p>On submission of this improvement program the final Odour Management Plan shall be reviewed by the Environment Agency and our position on approval confirmed in writing.</p>	30/06/15

Table S1.4 Pre-operational measures	
Reference	Pre-operational measures
PO1	<p>Prior to the commencement of commissioning; the Operator shall provide a written commissioning plan, including timelines for completion, for approval by the Environment Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Environment Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved.</p>

## Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials	
Raw materials and fuel description	Specification
-	-

## Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1. As detailed on schedule 7 site plan (1)	No parameters	Gas fired Auxillary boilers	No limit	-	-	
A2. As detailed on schedule 7 site plan.	Oxides of Nitrogen (as Nitrogen Dioxide)	Biomass Fluidised bed boiler 1	Daily average 400 mg/m <sup>3</sup>	Continuous	-	EN 14181
A2. As detailed on schedule 7 site plan.	Oxides of Nitrogen (as Nitrogen Dioxide)	Biomass Fluidised bed boiler 1	Half hourly average 600 mg/m <sup>3</sup> (2) (3)	Continuous	-	EN 14181
A2. As detailed on schedule 7 site plan.	Oxides of Nitrogen (as Nitrogen Dioxide)	Biomass Fluidised bed boiler 1	600 mg/m <sup>3</sup>	(5)	6 monthly	BS EN 14792
A2. As detailed on schedule 7 site plan.	Total Particulates	Biomass Fluidised bed boiler 1	Daily average 10 mg/m <sup>3</sup>	Continuous	-	EN 14181 and BS EN 13284-2
A2. As detailed on schedule 7 site plan.	Total Particulates	Biomass Fluidised bed boiler 1	Half hourly average 15 mg/m <sup>3</sup> (2) (3)	Continuous	-	EN 14181 and BS EN 13284-2
A2. As detailed on schedule 7 site plan.	Total Particulates	Biomass Fluidised bed boiler 1	15 mg/m <sup>3</sup>	(5)	6 monthly	BS EN 13248-1
A2. As detailed on schedule 7 site plan.	Oxides of Sulphur (as Sulphur Dioxide)	Biomass Fluidised bed boiler 1	350 mg/m <sup>3</sup>	(5)	6 monthly	BS EN 14791/TGN M21 (6)
A2. As detailed on schedule 7 site plan.	Volatile Organic Compounds (as Total Organic Carbon)	Biomass Fluidised bed boiler 1	20 mg/m <sup>3</sup> .	(5)	6 monthly	BS EN 12619
A2. As detailed on schedule 7 site plan.	Carbon Monoxide	Biomass Fluidised bed boiler 1	150 mg/m <sup>3</sup>	(5)	6 monthly	BS EN 15058
A3. As detailed on schedule 7 site plan. (7)	No parameters	New natural gas fired auxillary boiler 1	No limit	-	-	-
A4. As detailed on schedule 7 site plan.	No parameters	New natural gas fired auxillary boiler 2	No limit	-	-	-
A5. As detailed on schedule 7 site plan	Oxides of Nitrogen (as Nitrogen Dioxide)	Biomass Fluidised bed boiler 2	Daily average 400 mg/m <sup>3</sup> (8)	Continuous	-	EN 14181
A5. As detailed on schedule 7 site plan	Oxides of Nitrogen (as Nitrogen Dioxide)	Biomass Fluidised bed boiler 2	Half hourly average 600 mg/m <sup>3</sup>	Continuous	-	EN 14181
A5. As detailed on schedule 7 site plan	Oxides of Nitrogen (as Nitrogen Dioxide)	Biomass Fluidised bed boiler 2	600 mg/m <sup>3</sup> (2) (3)	(5)	6 monthly	BS EN 14792
A5. As detailed on schedule 7 site plan	Total Particulates	Biomass Fluidised bed boiler 2	Daily average 10 mg/m <sup>3</sup>	Continuous	-	EN 14181 and BS EN 13284-2
A5. As detailed on schedule 7 site plan	Total Particulates	Biomass Fluidised bed boiler 2	Half hourly average 15 mg/m <sup>3</sup> (2) (3)	Continuous		EN 14181 and BS EN 13284-2

**Table S3.1 Point source emissions to air – emission limits**

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
A5. As detailed on schedule 7 site plan	Total Particulates	Biomass Fluidised bed boiler 2	15 mg/m <sup>3</sup>	(5)	6 monthly	BS EN 13248-1
A5. As detailed on schedule 7 site plan.	Oxides of Sulphur (as Sulphur Dioxide)	Biomass Fluidised bed boiler 2	350 mg/m <sup>3</sup>	(5)	6 monthly	BS EN 14791 /TGN M21 (6)
A5. As detailed on schedule 7 site plan.	Volatile Organic Compounds (as Total Organic Carbon)	Biomass Fluidised bed boiler 2	20 mg/m <sup>3</sup> .	(5)	6 monthly	BS EN 12619
A5. As detailed on schedule 7 site plan.	Carbon Monoxide	Biomass Fluidised bed boiler 2	150 mg/m <sup>3</sup>	(5)	6 monthly	BS EN 15058
A6. As detailed on schedule 7 site plan.	No parameters	Roaster 3	No limits	-	-	-
A7. As detailed on schedule 7 site plan.	No parameters	Roaster 4	No limits	-	-	-
A8. As detailed on schedule 7 site plan.	No parameters	Roaster 5	No limits	-	-	-
A9. As detailed on schedule 7 site plan.	No parameters	Egron Burner Stack	No limits	-	-	-
A10. As detailed on schedule 7 site plan.	No parameters	Roaster A E1 main combustion emission	No limits	-	-	-
A11. As detailed on schedule 7 site plan.	No parameters	Roaster B E1 main combustion emission	No limits	-	-	-
A12. As detailed on schedule 7 site plan.	No parameters	Roaster A E2 cooler cyclone stack	No limits	-	-	-
A13. As detailed on schedule 7 site plan.	No parameters	Roaster B E2 cooler cyclone stack	No limits	-	-	-
A14. As detailed on schedule 7 site plan.	No parameters	Effluent treatment drum filter vent	No limits	-	-	-

**Notes:-**

- (1) Operator to confirm in writing A1 boiler decommissioning date
- (2) During normal operation when firing waste coffee grounds
- (3) These limits do not apply during start-up and shut-down.
- (4) The averaging period for all continuously measured concentration readings shall take into account only the hours during which the plant is actually in operation. For oxides of nitrogen monitoring periods of start-up and shut-down are excluded.
- (5) Minimum monitoring period of one hour.
- (6) Operator to define which one of two monitoring methods utilised in reporting form.
- (7) Operator to confirm in writing to the Environment Agency the final A1 boiler de-commissioning date.
- (8) After operator submission of IC3 this ELV is to be reviewed and any changes confirmed in writing by the Environment Agency.

**Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 .As detailed on plan in schedule 7.	No parameter	Existing Roaster Building	No limit	-	-	-
W2. As detailed on plan in schedule 7.	No parameter	Existing Boiler House	No limit	-	-	-
W3. As detailed on plan in schedule 7.	No parameter	Egron Building	No limit	-	-	-
W4. As detailed on plan in schedule 7.	No parameter	New Roasters ( A and B) Building	No limit	-	-	-
W5. As detailed on plan in schedule 7.	No parameter	New Boiler House including new FBB.	No limit	-	-	-
W6. As detailed on plan in schedule 7.	No parameter	DAF effluent facility	No limit	-	-	-

**Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W7. As detailed on plan in schedule 7.	No parameter	Sludge and Effluent Tanks	No limit	-	-	-
W8. As detailed on plan in schedule 7.	No parameter	Divert Tanks area	No limit	-	-	-
W9. As detailed on plan in schedule 7.	No parameter	Filtration Facility	No limit	-	-	-

**Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. Unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
S1. As detailed on plan in schedule 7.	No parameters	Effluent Treatment Plant Discharge	No limit	-	-	-

# 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
Total Particulate	A2 and A5	Quarterly Report for Continuous Monitoring 6 monthly for Periodic Monitoring	Xx/02/14
Oxides of Nitrogen (as Nitrogen Dioxide)	A2 and A5	Quarterly Report for Continuous Monitoring 6 monthly for Periodic Monitoring	Xx/02/14
Oxides of Sulphur (as Sulphur Dioxide)	A2 and A5	6 monthly	Xx/02/14
Carbon Monoxide	A2 and A5	6 monthly	Xx/02/14
Total VOC's	A2 and A5	6 monthly	Xx/02/14

**Table S4.2 Reporting forms**

Media/parameter	Reporting format	Date of form
Air	Form Air 1	Xx/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	

<b>(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment</b>	
<b>To be notified Immediately</b>	
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>(b) Notification requirements for the breach of a permit condition</b>	
<b>To be notified immediately</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>
<b>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:</b>	
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.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* 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 or background concentration 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.

“*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.

“*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 (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, 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.

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

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

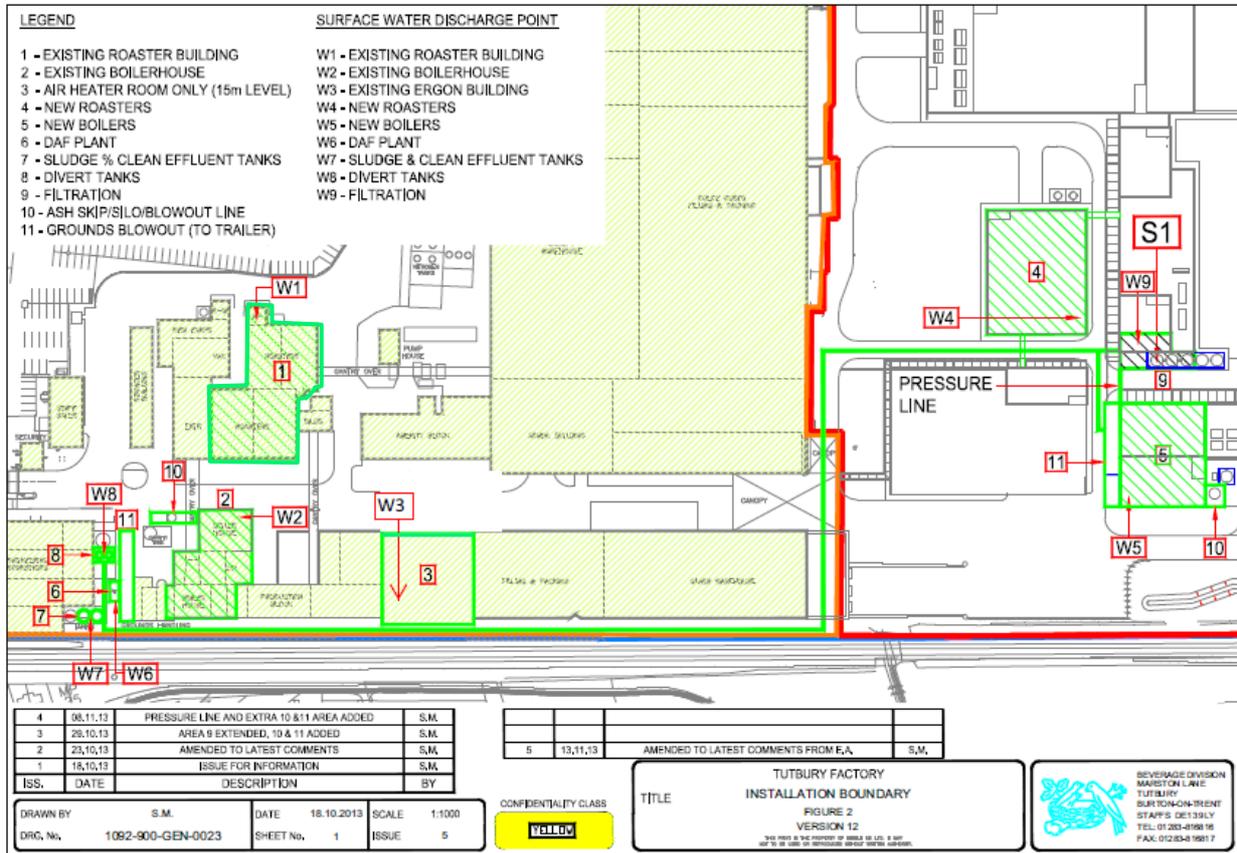
in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

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.

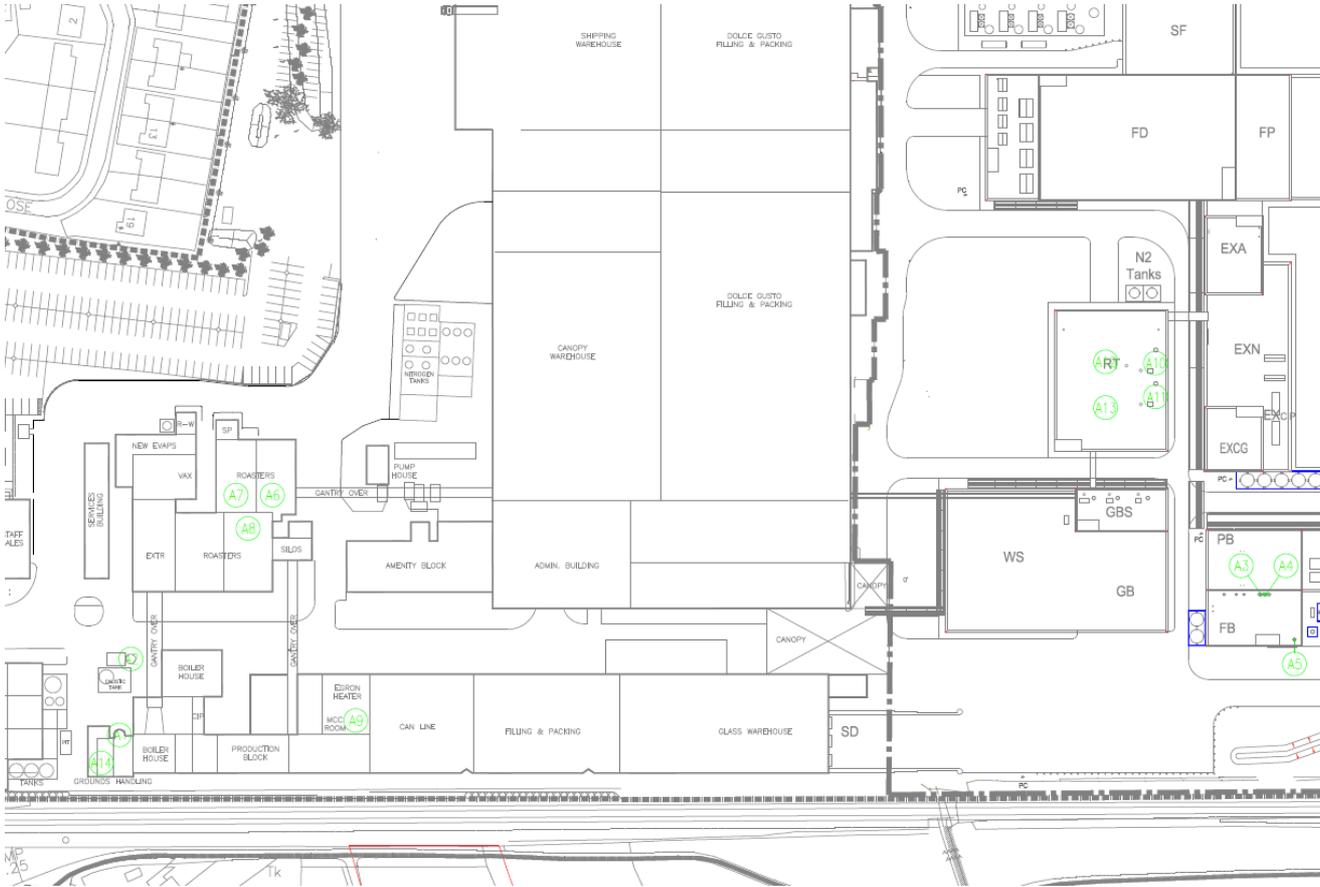
# Schedule 7 - Site plan

Site plan as below showing enlarged installation boundary plus effluent and surface water emission points.

Note: legend clarifies areas within installation boundary and a description of each facility:



**Additional site plan as below shows atmospheric emissions points:**



**END OF PERMIT.**