

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Muntons plc

Cedars Maltings
Needham Road
Stowmarket
Suffolk
IP14 2AG

Variation application number

EPR/FP3132PH/V006

Permit number

EPR/FP3132PH

Cedars Maltings

Permit number EPR/FP3132PH

Introductory note

This introductory note does not form a part of the notice

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

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

This variation and consolidation notice authorises the following changes:

- The addition of a continuous flow grain dryer with a net thermal rated input of 6.51 MWth;
- A change to the locations and stack heights of the site's existing two Varinox heater flues;
- The inclusion of the production of home brew kits for beer and wine in the Section 6.8 Part A(1)(d)(ii) activity description as referenced in table S1.1; and
- The addition of a separate Section 5.4 Part A(1)(a)(ii) activity to table S1.1 to reflect the operation of an effluent treatment plant at the site.

The rest of the installation remains unchanged and continues to operate as follows:

Cedars Maltings operates primarily as a malt house and produces malt ingredients including malt extract, barley syrup, wheat based flours and a range of spray or band dried extracts. The site is located approximately 2 km southeast of Stowmarket town centre and is centred at national grid reference TM 06468 57317. The installation is situated on privately owned land which is predominantly surrounded by fields and arable farmland.

Barley is harvested and brought to Cedars Maltings where it is dried prior to storage at one of the site's grain silos. Drying is achieved by passing grain through the continuous flow dryer, which dries the barley whilst aspirating off small and broken grains, husk and dust. These materials are captured, treated, pelletised and sold as animal feed. Barley is then steeped in water sourced from boreholes on site to ensure that it has sufficient water to grow. After two days intermittent immersion in the water, the grain is cast into germination boxes and after four days the barley will have developed rootlets and a very small chit. Chitted barley is dried to render it stable for storage, to develop colour and flavour and to make it suitable for milling. Malt is screened and stored in silos after drying pending dispatch as whole malt or it is sent for further processing into other malted ingredients on site.

Due to the large volumes of wastewater generated by the main activity at Cedars Maltings, an effluent treatment plant (ETP) is in place which treats the low chemical oxygen demand (COD), high volume stream of the general process effluent prior to its release into the River Gipping. This ETP comprises a lagoon, balance tank, dissolved air floatation (DAF) tank, aerobic reactors, clarifier and sand filters.

An upflow anaerobic sludge blanket (UASB) anaerobic digester (AD) is also in operation at the installation in order to treat the site's higher strength process effluent (high COD, low volume). This AD plant processes wastes generated from the production of malted extract ingredients and surplus effluent sludge from the aforementioned ETP. The maximum daily throughput of the AD plant is 280 m³ per day. Biogas produced from the AD process is used as a fuel for the site's combined heat and power (CHP) engine. In the event of the CHP not operating, the biogas is flared. Heat produced by the AD plant is used to supply heat to the AD plant, pasteurisation plant and to the reprocessing of malt ingredient products. The solid digestate recovered from the AD process is pasteurised to satisfy the requirements of the PAS 110:2010 standard and is then passed through a decanting centrifuge prior to storage. Wastewater generated by the AD process is treated by the site's ETP before being discharged into the River Gipping.

Emissions to air from the site include fugitive dust which is predominantly generated by the drying of grain in the continuous flow dryer. The dryer is equipped with a dust abatement system to ensure the release of fugitive dust emissions to air is mitigated. Combustion plant at the installation also results in emissions to air. Emissions to water from the installation include the discharge of treated process effluent to the River Gipping. Uncontaminated surface water run-off from the site's yard areas discharges to a railway ditch adjacent to the River Gipping.

There are sensitive human receptors within 250 metres of the site. There is one Site of Special Scientific Interest (SSSI), seven Local Wildlife Sites (LWS) and three Ancient Woodlands (AW) within 2 km of the site. All emissions from the installation have been assessed against these sensitive receptors and the potential impacts from all emission sources have been found not to be significant.

The schedules specify the changes made to the permit.

Status log of the permit		
Description	Date	Comments
Application received EPR/FP3132PH	Duly made 22/03/2005	Application for a food and drink facility producing malt and malted ingredients
Response to request for information dated 04/07/2005	Received 20/07/2005	
Response to request for information dated 14/09/2005	Received 14/09/2005	
Permit determined EPR/FP3132PH	09/11/2005	Permit issued to Muntons PLC.
Agency Initiated Variation HP3634UG determined EPR/FP3132PH/V002	22/05/2007	Agency initiated permit review. Variation issued.
Variation application EPR/FP3132PH/V003	Duly made 11/01/2008	Variation of air and water emission points as a result of improvement works on site.
Response to request for information dated 11/03/2008	Received 30/03/2008	
Variation determined EPR/FP3132PH/V003	26/09/2008	Varied permit issued.
Agency Initiated Variation determined EPR/FP3132PH/V004	28/08/2013	Agency initiated variation to implement the changes introduced by IED.
Application EPR/FP3132PH/V005 (variation and consolidation)	Duly made 08/12/2014	Application to vary permit to include new AD facility and update the permit to modern conditions.
Response to Schedule 5 request dated 27/01/2015	Received 02/03/2015	Revised Odour Management Plan and details of bunding, clay permeability and containment on site.
Response to request for information dated 06/03/2015	Received 12/03/2015	Revised Air Emissions Points Plan reference <i>REF DRG No 40.101.001F 22/11/2011.</i>
Variation determined EPR/FP3132PH/V005	25/03/2015	Varied and consolidated permit issued in modern condition format.
Application EPR/FP3132PH/V006 (variation and consolidation)	Duly made 24/04/2018	Application to vary the permit to include a new continuous flow dryer, amend the location of two Varinox heater flues and include the manufacture of home brew and wine making kits in the description of the listed activity.

Status log of the permit		
Description	Date	Comments
Additional information requested by Schedule 5 Notice, dated 13/06/18	Received 13/07/2018	Additional information regarding the air dispersion modelling report, NO _x abatement of the new continuous flow dryer and confirmation of the daily treatment capacity of the site's effluent treatment plant.
Variation determined EPR/FP3132PH/V006 (Billing reference: WP3339DT)	04/10/2018	Varied and consolidated permit issued in modern condition format.

End of introductory note.

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/FP3132PH

Issued to

Muntons plc (“the operator”)

whose registered office is

Cedars Maltings

Stowmarket

Suffolk

IP14 2AG

company registration number 00176992

to operate a regulated facility at

Cedars Maltings

Needham Road

Stowmarket

Suffolk

IP14 2AG

to the extent set out in the schedules.

The notice shall take effect from 04/10/2018

Name	Date
Claire Roberts	04/10/2018

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 2016

Permit number

EPR/FP3132PH

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FP3132PH/V006 authorising,

Muntons plc (“the operator”),

whose registered office is

Cedars Maltings

Stowmarket

Suffolk

IP14 2AG

company registration number 00176992

to operate an installation at

Cedars Maltings

Needham Road

Stowmarket

Suffolk

IP14 2AG

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

Name	Date
Claire Roberts	04/10/2018

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 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Total annual emissions from the emission point(s) set out in schedule 3 tables S3.1 and S3.2 of a substance listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.
- 3.1.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4 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; and
 - (b) process monitoring specified in table S3.4.
- 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.

4.3 Notifications

- 4.3.1 In the event:
- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency

when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

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

- 4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

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

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	Section 6.8 Part A(1)(d)(ii) Treating and processing materials intended for the production of food products from vegetable raw materials	Malting of grains and production of malt extract, malted ingredients and homebrew kits for beer and wine	From receipt of raw materials to dispatch of finished product.
AR2	Section 5.4 Part A(1)(b)(i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day by biological treatment	R3: Recycling/reclamation of organic substances which are not used as solvents Anaerobic digestion of permitted wastes followed by burning of biogas produced by the process	From the receipt of wastes generated by AR1 through to digestion and recovery of by-products (digestate). Anaerobic digestion of permitted waste including pasteurisation and chemical addition. Waste types as produced at the installation.
AR3	Section 5.4 Part A(1)(a)(ii) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day by physico-chemical treatment	Effluent treatment plant D9: Physico-chemical treatment which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12	From the receipt of waste process waters from activities AR1 and AR2 to the discharge of treated waste process waters into the River Gipping.
Directly Associated Activity			
AR4	Operation of boilers for the generation of hot water and steam for use at the installation	Three steam-raising boilers with an aggregated net rated thermal input of 22.5 MWth input, two varinox boilers with individual net rated thermal inputs of 4.75 MWth, one delta boiler with a net rated thermal input of 1.5 MWth and one auxiliary hot water boiler with a net rated thermal input of 0.25 MWth.	From the receipt of fuel to the release of waste gases from chimney.
AR5	Combustion of biogas from the site's AD plant in a combined heat and power (CHP) engine	One CHP engine with a net rated thermal input of 0.499 MWth.	From the receipt of biogas produced at the on-site anaerobic digestion process to combustion via a CHP engine and the final release of combustion gases.
AR6	Operation of a continuous flow dryer and associated combustion plant for the	A Medium Combustion Plant comprising one continuous flow dryer with a	From the receipt of grain and fuel on site to the drying of grain by the continuous flow dryer and

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
	purpose of drying grain at the site	net rated thermal input of 6.51 MWth.	final release of combustion gases.
AR7	Emergency flare operation	Use of an auxiliary flare required only for periods of breakdown or maintenance of the CHP engine.	From the receipt of biogas produced on-site to combustion with the release of combustion gases.
AR8	Heat treatment	Pasteurisation of permitted wastes produced onsite using heat.	From the receipt of waste to recovery.
AR9	Biogas storage	Storage of biogas produced from anaerobic digestion in stand-alone tank.	From the storage of biogas produced from anaerobic digestion to point of combustion.
AR10	Sludge and digestate dewatering	Post-treatment of sludge and digestate to remove water content.	From input of sludge and digestate to output – solid fraction of sludge/digestate and liquor.
AR11	Digestate storage	Storage of solid digestate in storage tank.	From the receipt of digestate produced from the on-site anaerobic digestion process to dispatch for use off-site.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/FP3132PH/A001	The response to questions 2.1 and 2.2 and 2.3 given in pages 10-67 of the application and section 4 of the application.	22/03/2005
Variation application EPR/FP3132PH/V003	All	30/03/2008
Application EPR/FP3132PH/V005	Responses to Parts C2 and C3 section 3 of the application form and referenced supporting documentation	Duly made 08/12/2014
Response to Schedule 5 Notice dated 27/01/2015	Revised Odour Management Plan reference: <i>Odour Management Plan – Anaerobic Digestion Plant at Cedars Maltings, Stowmarket. ADAS. February 2015</i>	02/03/2015
Response to request for information dated 06/03/2015	Revised Air Emissions Points Plan Reference: <i>REF DRG No 40.101.001F 22/11/2011</i>	12/03/2015
Application EPR/FP3132PH/V006	Responses to questions 3a), 3c) and 4a) of part C3 of the application form and supporting documentation regarding: <ul style="list-style-type: none"> • Technical standards; • Raw materials; and • Monitoring. 	22/02/2018

Table S1.2 Operating techniques		
Description	Parts	Date Received
Responses to Not Duly Made Letter, dated 28/03/2018	Responses to question 4) of the Not Duly Made Letter regarding details of the home brew beer and wine kits.	24/04/2018
Responses to Schedule 5 Notice, dated 13/06/2018	Responses to questions 2i), 2ii) and 3) of the Schedule 5 Notice regarding: <ul style="list-style-type: none"> • Thermal inputs of combustion plant; and • Confirmation of low NO_x burners on the new continuous flow dryer. 	13/07/2018

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall undertake an assessment of the drainage, sub-surface structures, surfacing and containment measures on site. The assessment will take into account, but not be limited to the requirements of section 2.2.5 of the Agency Guidance Note IPPC S6.10, the storage of fire water in the event of a fire at the installation, the installation of an oil interceptor for releases to the 'railway ditch' adjacent to the installation and the feasibility of directing all surface water currently disposed to ground water via a soakaway to the engineered surface water drainage system. A written report summarising the findings shall be submitted to the Agency.	Completed 01/04/2006
IC2	The Operator shall develop a programme of regular integrity testing, inspection and maintenance of all liquid storage systems, subsurface structures, secondary and tertiary containment in relation to the potential to cause fugitive emissions to surface water and ground water. The program shall take into account the requirements of section 2.2.5 of the Agency Guidance Note IPPC S6.10, August 2003. A written report summarising the program shall be submitted to the Agency.	Completed 01/04/2006
IC3	The Operator shall undertake an assessment of ways in which the total phosphorous as P content of the effluent discharged from the on-site effluent treatment plant can be reduced so that it can consistently meet the lower limit set within this permit (Ref. table 2.2.5). A written report summarising the findings of this assessment with a firm timetable for the implementation of any necessary improvements, shall be provided to the Agency.	Completed 01/06/2006
IC4	The Operator shall undertake an assessment of the use of closed loop cooling systems, as a replacement for discharging cooling water to surface water release points W2 and W3. The assessment shall include, but not be limited to the installation of a cooling tower and redirecting the band dried cooling water into the evaporator 1 condenser cooling water duct. The assessment shall also include a risk-based analysis of the potential for contaminants to enter the cooling water and the subsequent impacts. A written report shall be submitted to the Agency, including timescales for implementing the proposed improvements.	Completed 01/06/2006
IC5	The Operator shall provide a written report detailing the proposed timescales and procedure for the decommissioning and removal of the oil tanks referred to as 'Old gas oil tanks'. The procedures shall include, but not be limited to the removal method(s) for the oil from both the tanks and pipeline(s), identification and removal of any contaminated soil and disposal methods.	Completed 01/07/2006
IC6	The Operator shall provide the Agency with written proposals for a programme of monitoring for particulate releases from emission points A3, A4, A5, A6, A7, A8, A9, A10, A12, A13, A15, A16, A17, A18, A21, A23, A28,	Completed 15/01/2008

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	A30, A31, A32 and A33. Monitoring shall be carried out to an appropriate recognised standard. The proposals shall include a justification for the frequency and method of monitoring and a justification for the exclusion of monitoring of any of the emission points.	
IC7	The Operator shall provide to the Agency a report confirming the installation of the spinning discs humidification system within B Block maltings at the installation. The report shall include water usage savings from the installation of this system.	Completed 27/11/2006
IC8	The Operator shall review their Environmental Management System against the requirements of section 2.3 of Agency Guidance Note S6.10, August 2003. The Operator shall submit a proposed timetable of improvements, for any deficiencies identified, to the Agency.	Completed 20/02/2007
IC9	The Operator shall develop a written Site Closure Plan with regard to the requirements set out in Section 2.11 of the Agency Guidance Note IPPC S6.10, August 2003. Upon completion of the plan a summary of the document shall be submitted to the Agency in writing.	Completed 23/03/2007
IC10	The Operator shall submit a written plan to the Agency for approval that sets out the monitoring of emissions to be undertaken from air emission points A1, A26 and A34, A40 and A41. The plan shall take into account the requirements of Agency Guidance Note IPPC S6.10 and Technical Guidance Note M2.	Completed 28/08/2008
IC11	The Operator shall undertake the monitoring set out in the plan submitted as a requirement of IC10 following its approval by the Agency. The results of the monitoring shall be submitted to the Agency along with an assessment of the impact of the emissions and potential future emissions using the Agency's H1 methodology.	Completed 25/01/2013
IC12	On completion of IC11, the Operator shall carry out air dispersion modelling for any emissions identified as being significant by the H1 screening tool and submit the results to the Agency along with a timetable for implementing any remedial action to be taken if necessary.	Completed
IC13	The Operator shall undertake air emission monitoring (method to be agreed in writing with the Environment Agency) of oxides of nitrogen (NO _x) from emission point A67 (continuous flow dryer), as defined in table S3.1. The monitoring schedule shall be designed to provide data representative of typical and worst case operating conditions and shall be in line with Technical Guidance Notes M1 (version 8, August 2017) and M2 (version 12, August 2017). The Operator shall submit a written report to the Environment Agency detailing the monitoring undertaken and the results obtained.	01/11/2019
IC14	Following the completion of IC13 and in the event that measured emissions from emission point A67 are significantly higher than the figures used in the air dispersion modelling report submitted with application EPR/FP3132PH/V006 (dated July 2018), the Operator shall carry out a revised air dispersion modelling using the emissions monitoring data and submit this to the Environment Agency to review.	One month following the completion of IC13 or as agreed in writing with the Environment Agency

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Delta boiler	No parameters set	No limit set	---	---	---
A3 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	No. 3 grain intake	No parameters set	No limit set	---	---	---
A4 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	No. 1 pre-cleaner (intake)	No parameters set	No limit set	---	---	---
A6 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	No. 1 dryer exhaust	No parameters set	No limit set	---	---	---
A7 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	No. 2 dryer exhaust	No parameters set	No limit set	---	---	---
A10 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	No. 3 cleaner intake	No parameters set	No limit set	---	---	---
A12 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Malt dresser (Cedars)	No parameters set	No limit set	---	---	---

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A13 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Malt cleaner (Cedars)	No parameters set	No limit set	---	---	---
A23 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Micronizer/cooler	No parameters set	No limit set	---	---	---
A26 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	3 steam boilers	No parameters set	No limit set	---	---	---
A28 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Spray dryer plant product cyclone	No parameters set	No limit set	---	---	---
A32 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Flour plant grinder (large mill)	No parameters set	No limit set	---	---	---
A40 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Varinox heater (note 1)	No parameters set	No limit set	---	---	---
A41 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Varinox heater (note 1)	No parameters set	No limit set	---	---	---

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A42 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	AD plant emergency flare stack (note 2)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	150 mg/m ³	Hourly average	(note 3)	BS EN 14792
		Carbon monoxide	50 mg/m ³			BS EN 15058
		Total VOCs	10 mg/m ³			BS EN 12619:2013
A43 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	AD plant CHP engine exhaust	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Hourly average	Annually	BS EN 14792
		Carbon monoxide	1,400 mg/m ³			BS EN 15058
		Total VOCs	1,000 mg/m ³			BS EN 12619
		Sulphur dioxide	350 mg/m ³			BS EN 14791
A44 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	AD plant biodome gas holder	No parameters set	No limit set	---	---	---
A45 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	AD plant – upflow anaerobic sludge blanket (UASB)	No parameters set	No limit set	---	---	---
A46 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	AD plant 0.250 MW standby boiler	No parameters set	No limit set	---	---	---
A47 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Pasteuriser 1	No parameters set	No limit set	---	---	---

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A48 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Pasteuriser 2	No parameters set	No limit set	---	---	---
A48a on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Pasteuriser 3	No parameters set	No limit set	---	---	---
A49 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Centrifuge	No parameters set	No limit set	---	---	---
A50 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Barley screening – Schmidt dresser	No parameters set	No limit set	---	---	---
A51 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Barley screening – de-stoner	No parameters set	No limit set	---	---	---
A52 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Heaton Green Schmidt	No parameters set	No limit set	---	---	---
A53 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Airmaster: weighers, conveyors, elevators, and bins 23a to 30	No parameters set	No limit set	---	---	---
A54 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and	Airmaster: bins 1-8 & 15-22	No parameters set	No limit set	---	---	---

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
submitted with application EPR/FP3132PH/V006						
A55 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DCE: bulk silo discharge auger	No parameters set	No limit set	---	---	---
A56 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DAMAS cyclone: hand tip conveyors	No parameters set	No limit set	---	---	---
A57 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DAMAS cyclone: packing lines and hoppers blending tips	No parameters set	No limit set	---	---	---
A58 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Nederman: de-stoner mill	No parameters set	No limit set	---	---	---
A59 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DCE: Nuttimaltsifter Kibblers elevators	No parameters set	No limit set	---	---	---
A60 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DCE: HM3 flour bin	No parameters set	No limit set	---	---	---
A61 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DCE: HM2 hammer mill	No parameters set	No limit set	---	---	---

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A62 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DCE: HM2 blowline	No parameters set	No limit set	---	---	---
A63 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	BTR environmental: bulk Silo blowline	No parameters set	No limit set	---	---	---
A64 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	DAMAS cyclone: blending blowline	No parameters set	No limit set	---	---	---
A65 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Donaldson Torit: HM3 blowline	No parameters set	No limit set	---	---	---
A66 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	WAM: bulk silo blowline	No parameters set	No limit set	---	---	---
A67 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Continuous flow dryer	(note 4)	(note 4)	---	---	---
A68 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Intake bin dust extraction	No parameters set	No limit set	---	---	---
A69 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and	Varinox heater	No parameters set	No limit set	---	---	---

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
submitted with application EPR/FP3132PH/V006						
A70 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Varinox heater	No parameters set	No limit set	---	---	---
A71 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Intake pre-cleaner	No parameters set	No limit set	---	---	---
A72 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006	Pacepacker packing head - outside under canopy	No parameters set	No limit set	---	---	---
<p>Note 1: emission points A40 and A41 will be replaced by emission points A69 and A70 once the Varinox heater flues have been installed in their new locations. Once the Varinox flues have been relocated, emission points A40 and A41 will become redundant.</p> <p>Note 2: these limits are based on normal operating conditions and load - temperature 0°C (273K); pressure: 101.3 kPa and oxygen: 3 per cent (dry gas). The measurement uncertainty specified in LFTGN05 v2 2010 shall apply.</p> <p>Note 3: monitoring to be undertaken 12 months after commissioning of the emergency flare. Following commissioning, monitoring to be undertaken in the event the emergency flare has been operational for more than 10 per cent of a year (876 hours).</p> <p>Note 4: monitoring parameter and emission limit to be reviewed following completion of improvement conditions 13 and 14.</p>						

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 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application	Maximum discharge volume	Effluent Treatment Plant	1,500 m ³	In any 24 hour period	Continuous	MCERTS self-monitoring of effluent flow scheme.

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
EPR/FP3132PH/V006 emission to River Gipping						Continuous flow meter
	Mercury		0.001 mg/l	24-hour flow proportional sample	Annual	BS EN ISO 17852
	Cadmium		0.005 mg/l	24-hour flow proportional sample	Annual	BS EN ISO 17294 BS EN ISO 5961 BS EN ISO 1185
	Biochemical Oxygen Demand (BOD)		20 mg/l	Spot sample	Monthly	BS EN 1899-1 (1998)
	Suspended Solids (SS)		30 mg/l	Spot sample	Monthly	BS EN 872
	pH		5 to 9	In any 24hr period	Monthly	BS ISO 10523
	Ammonia (total) as N		5 mg/l	Spot sample	Monthly	BS EN ISO 11732:1997
	Total iron as Fe		5 mg/l	Spot sample	Weekly	BS EN ISO 11885:1998
	Total phosphorous as P		2 mg/l from 02/06/06	Spot sample	Weekly	BS EN ISO15681
W2 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006, emission to River Gipping	Flow	Indirect cooling water	1,363 m ³	In any 24 hour period	Continuous	MCERTS self-monitoring of effluent flow scheme. Continuous flow meter
W2T on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006, emission to River Gipping	Temperature	Composite of effluent plant discharge and cooling water	25°C (Note 1)	Weekdays Monday – Friday inclusive.	Daily sample	
W3 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and	No parameter set	Surface water discharge roof water	No limit set	---	---	---

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
submitted with application EPR/FP3132PH/V006, emission to River Gipping		and yard drainage				
W4 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006, emission to railway ditch adjacent to River Gipping	No parameter set	Surface water runoff	No limit set	---	---	---
W5 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006, emission to railway ditch	No parameter set	Surface water / yard drainage	No limit set	---	---	---
WL1 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006, emission to railway ditch	No parameter set	'Squirrels Yard' run-off	No limit set	---	---	---
WL2 on the drawing titled: <i>Site emissions – revision E</i> , dated 15/06/18 and submitted with application EPR/FP3132PH/V006, emission to railway ditch	No parameter set	Warehouse yard run-off	No limit set	---	---	---
Note 1 - The limit of 25°C applies except where the ambient temperature of the receiving water exceeds 25°C. Under these circumstances, the temperature of the discharge will not exceed the ambient temperature of the receiving waters by more than 3°C.						

Table S3.3 Annual limits		
Substance	Medium	Limit (including unit)
Mercury	Water	0.312 kg in a year
Cadmium	Water	1.56 kg in a year

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Biogas from digesting tanks; biogas storage tank	Flow	Continuous	---	---
Biogas from digesting tanks; biogas storage tank	Methane	Continuous	---	Gas monitors to be calibrated every 6 months to manufacturer's recommendations
Biogas from digesting tanks; biogas storage tank	Hydrogen sulphide	Daily	---	---
Biogas from digesting tanks, biogas storage tank, digestate storage tank, waste reception areas and external storage	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary

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.	A42, A43	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1.	W1	Every 3 months	1 January, 1 April, 1 July, 1 October
Emissions to water Cadmium Mercury	W1	Every 12 months	1 January
Emissions to water Flow m ³ /d	W1, W2	Every 3 months	1 January, 1 April, 1 July, 1 October
Emissions to water Temperature	W2T	Every 3 months	1 January, 1 April, 1 July, 1 October

Table S4.2 Annual production/treatment	
Parameter	Units
Production of malt	tonnes
Production of malt extract	tonnes
Production of wet grains	tonnes
Electricity generated	MWh
Biomethane generated	tonnes or m ³
Liquid digestate	tonnes or m ³
Solid digestate	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Waste disposal and/or recovery	Annually	tonnes
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	25/03/2015
Water and Land	Form water 1 or other form as agreed in writing by the Environment Agency	25/03/2015
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	25/03/2015
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	25/03/2015
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	25/03/2015

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

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

(c) Notification requirements for the 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.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“emissions to land” includes emissions to groundwater.

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

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

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

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

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

“Pests” means Birds, Vermin and Insects.

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

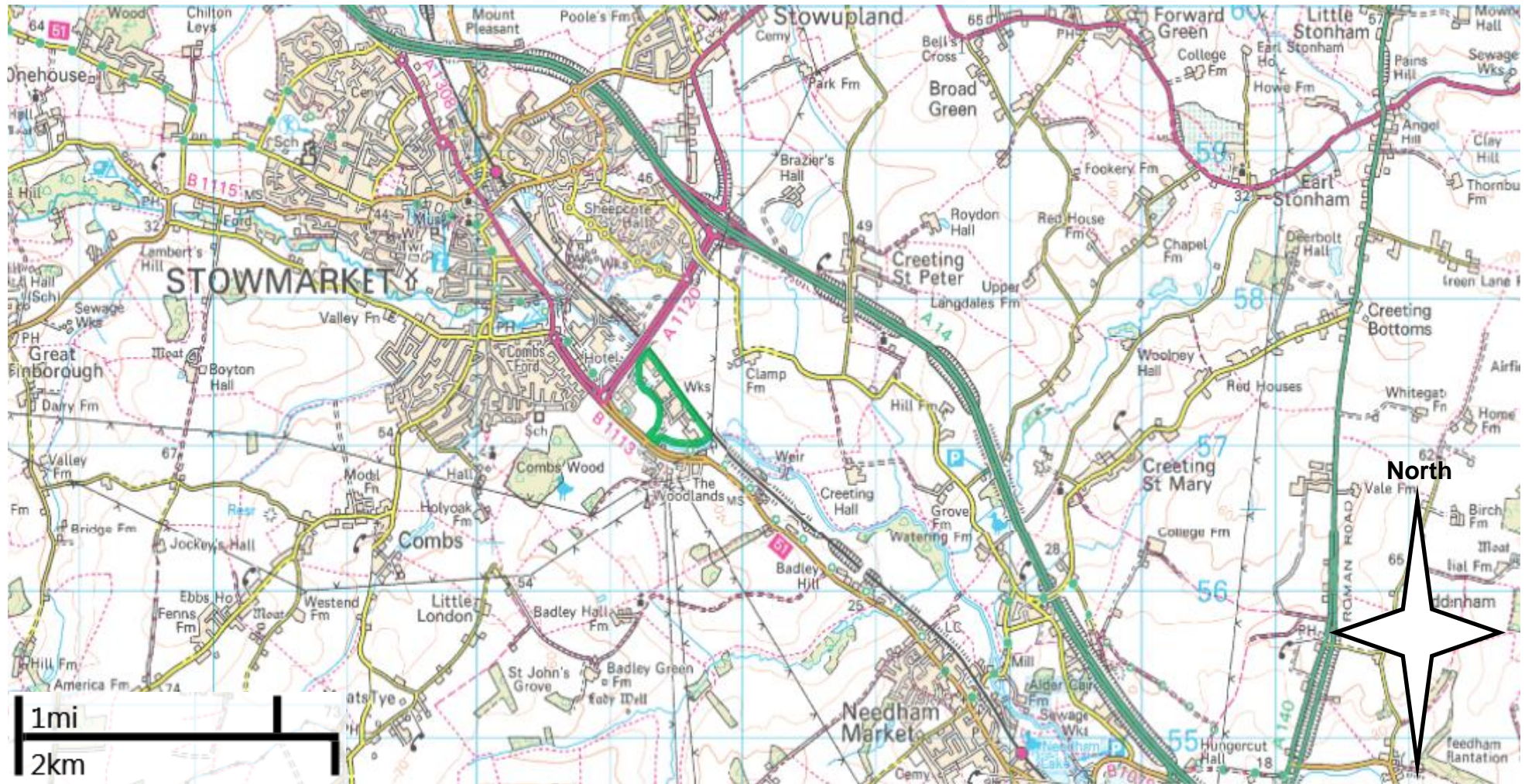
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from gas engines or gas turbines, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 15% dry for liquid and gaseous fuels ; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

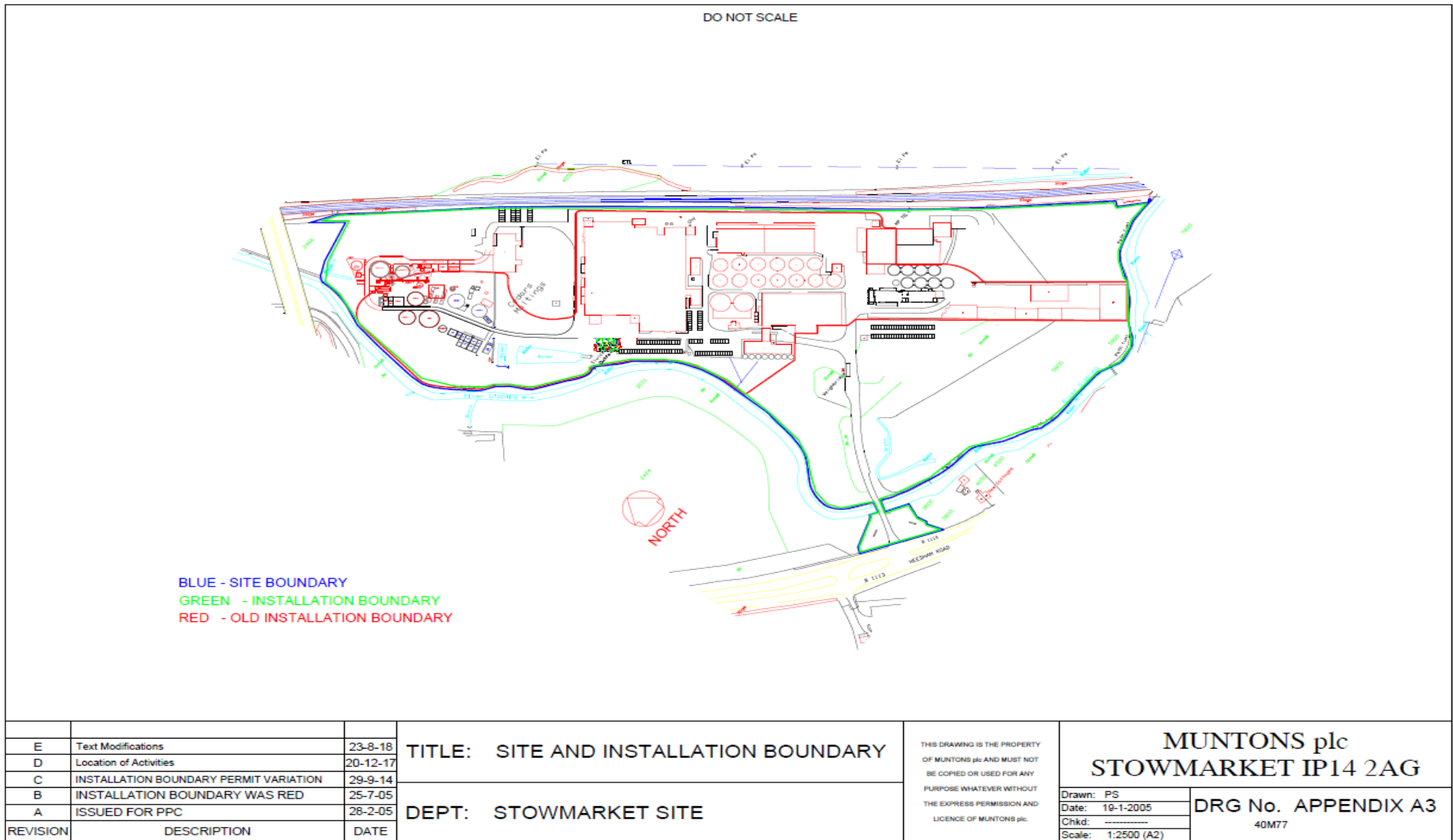
“year” means calendar year ending 31 December.

Schedule 7 – Site plan

Site location plan



Site plan



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END OF PERMIT