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Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Amey LG Limited

Isle Of Wight Waste Recovery Park Forest Road Newport Isle of Wight PO30 5YS

Variation application number

EPR/QP3337AD/V005

Permit number

EPR/QP3337AD

Isle Of Wight Waste Recovery Park Permit number EPR/QP3337AD

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.

This variation has been issued to update the permit following a statutory review of the permits in the industry sector for incineration. The opportunity has also been taken to consolidate the original permit and subsequent variations. The Industrial Emissions Directive (IED) came into force on 7th January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) conclusions as described in the Commission Implementing Decision. The BAT conclusions for incineration were published on 03 December 2019 in the Official Journal of the European Union (L323) following a European Union wide review of BAT, implementing decision 2017/2117/EU of 21 November 2017.

The schedules specify the changes made to the 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.

Brief description of the process

This permit controls the operation of a waste incineration plant. The relevant listed activity is 5.1 A(1)(b). The permit implements the requirements of the EU Directives on Industrial Emissions and Waste.

The main features of the permit are as follows:

Furnace technology	Moving bed
Number of incineration lines	1
Principal waste type	RDF
Stack height	26 m
Permitted plant incineration capacity	44,000 tonnes per year
Electrical generation capacity	4.5 MW

The Permit covers the operation of:

- a waste pre-treatment process (Mechanical Treatment) for the production of 'RDF' (Refuse Derived Fuel)
- an 'MRF' (Materials Recycling Facility) for sorting dry mixed recyclables (for recovery), and
- an ERF Energy Recovery Facility for the incineration of RDF to produce energy

The Installation is located near Newport in the Isle of Wight at national grid reference SZ 471 897. Parkhurst Forest is situated on the boundary for the site.

The facility has permitted capacity as follows:

- Pre-treatment (mechanical treatment) plant 47,400 tonnes per year
- MRF plant a 32,600 tonnes per year
- Incineration plant 44,000 tonnes per year
- Storage of food waste and batteries 5,000 tones per year

Mechanical treatment process

Municipal waste is received within the waste processing building whereby it undergoes treatment in order to remove recyclable materials. Once such recyclables have been removed, the remaining waste undergoes shredding and blending in order to produce RDF. RDF is then conveyed to the ERF building for incineration. The recovered recyclable materials will be stored prior to transfer offsite.

The treatment building can also operate as a waste sorting facility (MRF). Mixed recyclables will be received and sorted into recyclable categories before being sent off site for recovery.

ERF process

A waste feeding system feeds the RDF waste stream into the PCC (primary combustion chamber). A triple sequence of double flaps ensures tight insulation from this PCC to external environment.

The PCC is designed to maintain temperatures in excess of 850°C. Support fuel is utilised as start-up fuel, and for any circumstances where support fuel is required to maintain such temperatures. Once the temperature is achieved, waste is transported along the primary combustion chamber by a series of rotating paddles.

The rotating paddles are fixed in position (above the waste mass) via a series of water cooled horizontal shafts which are controlled by a computer system in order to control the speed and rotation (on an individual shaft basis). The control system is programmed to control the speed of waste movement throughout the combustion chamber in order to achieve complete combustion with required residence time for waste gas destruction. Combustion air (originating from the waste bunker at negative pressure) is supplied throughout the combustion chambers at lateral air injection points by an adjustable independent fan. This minimises the escape of any odours from the waste bunker whilst ensuring even distribution of air for complete combustion. A secondary combustion chamber destroys any unburnt gases from the primary chamber and provides a 2 second residence time. An independent burner (under abnormal operations) in the secondary chamber maintains temperature between 850°C and 1200°C.

Following incineration of the waste, hot gases from the process pass through a horizontally mounted modular boiler allowing heat exchange to occur of boiler water into steam. A steam turbine with generator set will utilise the steam to generate up to 35,100 MWh of electricity (gross) per annum for the National Grid. No users of waste heat have been identified, however the plant will be constructed for CHP (combined heat and power) ready operation so that if future outlets for the heat arise, the plant can be easily adapted. The boiler includes a heat recovery unit which provides pre-heating of combustion air in order to improve the energy efficiency of the process.

Water used within the boiler is a closed cycle with minimal blowdown to remove contaminates and scale. Blowdown water is stored in a sub-surface storage tank and subsequent exported off site under a trade effluent agreement if within agreed limits or by licenced contractor. Surface water run-off will be discharged to an unnamed brook via an interceptor. Process effluent can be discharged of process to sewer or removed from site.

Emissions to air are from a 26 m high stack. Abatement of incineration gases are provided utilising a dry flue gas cleaning system which incorporates lime and activated carbon (for control of acid gases and dioxins), ceramic filtration (for particulate matter) and selective non-catalytic reduction (SNCR) for the control of NOx. Continuous (and periodic) monitors measure air emissions in order to ensure compliance with limits specified within schedule 3 of this permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/JP3132LH/A001 determined	07/11/2006	
Application for variation (EPR/JP3132LH/V002) received	Duly made 12/05/2010	
Variation (EPR/JP3132LH/V002) determined	17/08/2010	
Environment Agency led variation (EPR/JP3132LH/V003)	Issued 17/05/2011	
Environment Agency led variation (EPR/JP3132LH/V004)	Issued 18/02/2014	Variation to implement the changes introduced by the IED.
Application for full transfer EPR/QP3337AD/V005	Duly made 31/07/2015	Application to transfer the permit in full to Amey LG Limited.
(of permit EPR/JP3132LH)		
Transfer EPR/QP3337AD/T001 determined	Effective 15/09/2015	Full transfer of permit to permit number EPR/QP3337AD
Variation and Consolidation (EPR/QP3337AD/V002) application	Duly made 12/02/2016	
Variation and Consolidation (EPR/QP3337AD/V002)	Determined 07/06/16	
Variation and Consolidation (EPR/QP3337AD/V003) application	Duly made 31/05/17	Change technology from Gasification to Moved Bed (direct burn incineration)
Response to Schedule 5 Notice (requiring further information)	Response dated 07/07/2017 and 12/07/2017	Response to notice dated 16/06/2017
	09/08/2017	Email confirming reporting reference conditions (incineration)
	06/09/2017	AQIA Forest Road EP Variation rev3
Additional Information	22/09/2017	Confirmation that the CEMs monitoring will include Ammonia and N₂O monitoring
	20/10/2017	Confirmation of separate abatement feed / injection and abnormal emissions for HCL (at receptor)
Variation and Consolidation (EPR/QP3337AD/V003)	Determined 15/11/2017	
Variation for change of Registered office	12/07/2019	
Variation issued EPR/QP3337AD/V004	02/09/2019	
Regulation 61 notice issued	05/04/22	Regulation 61 Notice requiring information for Statutory review of permit. BAT Conclusions published 03 December 2019.
Regulation 61 notice response	05/07/22	

Status log of the permit		
Description	Date	Comments
Variation issued EPR/QP3337AD/V005	05/10/22	

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

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

Permit number

EPR/QP3337AD

Issued to

Amey LG Limited ("the operator")

whose registered office is

Chancery Exchange 10 Furnival Street London EC4A 1AB

company registration number 03612746

to operate a regulated facility at

Isle Of Wight Waste Recovery Park Forest Road Newport Isle of Wight PO30 5YS

to the extent set out in the schedules.

The notice shall take effect from 05/10/2022

Name	Date
Philip Lamb	05/10/2022

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 - consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/QP3337AD

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/QP3337AD/V005 authorising,

Amey LG Limited ("the operator"),

whose registered office is

Chancery Exchange 10 Furnival Street London EC4A 1AB

company registration number 03612746

to operate an installation, waste operations and water discharge activity at

Isle Of Wight Waste Recovery Park Forest Road Newport Isle of Wight PO30 5YS

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

Name	Date
Philip Lamb	05/10/2022

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.
 - (c) referenced in schedule 1, table S1.1 (AR1), from 03/12/2023, in accordance with a written other than normal operating conditions (OTNOC) management plan.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 The operator shall review the written management system at least every 3 years or otherwise as requested by the Environment Agency.
- 1.1.4 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.
- 1.1.5 The operator shall comply with the requirements of an approved competence scheme [or other approval issued by the Environment Agency.

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR3), the operator shall:
 - (a) take appropriate measures to ensure that energy is recovered with a high level of energy efficiency and 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.
- 1.2.2 The operator shall provide and maintain steam and/or hot water pass-outs such that opportunities for the further use of waste heat may be capitalised upon should they become practicable.
- 1.2.3 The operator shall review the viability of Combined Heat and Power (CHP) implementation at least every 4 years, or in response to any of the following factors, whichever comes sooner:
 - (a) new plans for significant developments within 15 km of the installation;
 - (b) changes to the Local Plan;
 - (c) changes to the UK CHP Development Map or similar; and
 - (d) new financial or fiscal incentives for CHP.

The results shall be reported to the Agency within 2 months of each review, including where there has been no change to the original assessment in respect of the above factors

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR3), the operator shall:
 - (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities:
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

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

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

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR3), waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

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

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan 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 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3, S2.4 and S2.5; and
 - (b) it conforms to the description in the documentation supplied by the producer or holder.
- 2.3.5 For the following activities referenced in schedule 1, table S1.1 (AR1), waste paper, metal, plastic or glass that has been separately collected for the purpose of preparing for re-use or recycling shall not be accepted. Waste from the treatment of these separately collected wastes shall only be accepted if incineration delivers the best environmental outcome in accordance with regulation 12 of the Waste (England and Wales) Regulations 2011.
- 2.3.6 For the following activities referenced in schedule 1, table S1.1 (AR1), separately collected fractions other than those listed in condition 2.3.5 shall not be accepted unless they are unsuitable for recovery by recycling.
- 2.3.7 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.
- 2.3.8 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.9 Waste shall not be charged if:
 - (a) the boiler radiation first pass (at the height of the end of the inner dividing wall) temperature is below 850 °C.
 - (b) any continuous emission limit value in schedule 3 table S3.1(a) is exceeded during abnormal operation; or
 - (c) any continuous emission limit value in schedule 3 table S3.1 is exceeded, other than during abnormal operation; or
 - (d) continuous emission monitors to demonstrate compliance with any continuous emission limit value in schedule 3 table S3.1 are unavailable other than during abnormal operation; or
 - (e) there is a stoppage, disturbance or failure of the activated carbon abatement system, other than during abnormal operation.
 - (f) continuous emission monitors to demonstrate compliance with the emission limit values for particulates, TOC or CO in schedule 3 are unavailable unless alternative techniques, as agreed in writing with the Environment Agency, are used to demonstrate compliance with those emission limit values.
- 2.3.10 The operator shall record the beginning and end of each period of "abnormal operation".
- 2.3.11 During a period of "abnormal operation", the operator shall restore normal operation of the failed equipment or replace the failed equipment as soon as possible.

- 2.3.12 The operator shall interpret the start of the period of "abnormal operation" as the earliest of the following:
 - (a) a technically unavoidable stoppage, disturbance, or failure of continuous emission monitors.
 - (b) a technically unavoidable stoppage, disturbance, or failure of the activated carbon abatement system
 - (c) Any other technically unavoidable stoppage, disturbance, or failure of the plant which is causing or could lead to an exceedance of an emission limit value in table S3.1.
- 2.3.13 The operator shall interpret the end of the period of "abnormal operation" as the earliest of the following:
 - (a) when the failed equipment is repaired and brought back into normal operation;
 - (b) when the operator initiates a shut down of the waste combustion activity, as described in the application or as agreed in writing with the Environment Agency;
 - (c) The failed equipment has not been repaired and brought back into normal operation and a single period of abnormal operation reaches a duration of 4 hours after the start of abnormal operation on an incineration line
 - (d) Abnormal operation occurs on an incineration line and the cumulative duration of abnormal operation periods over 1 calendar year has reached 60 hours on that incineration line;
- 2.3.14 The operator shall have at least one auxiliary burner in each line which shall be operated at start up, shut down and as required during operation to ensure that the operating temperature specified in condition 2.3.9 is maintained as long as incompletely burned waste is present in the combustion chamber. Unless the temperature specified in condition 2.3.9 is maintained in the combustion chamber, such burner(s) shall be fed only with fuels which result in emissions no higher than those arising from the use of gas oil, liquefied gas or natural gas.
- 2.3.15 Bottom ash and APC residues shall not be mixed.

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, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3, subject to condition 3.2.1, shall not be exceeded.
- 3.1.3 Wastes produced at the site shall, as a minimum, be sampled and analysed in accordance with schedule 3 table S 3.4. Additional samples shall be taken and tested and appropriate action taken, whenever:
 - (a) disposal or recovery routes change; or

(b) it is suspected that the nature or composition of the waste has changed such that the route currently selected may no longer be appropriate.

3.2 Emissions limits and monitoring for emission to air for incineration plant

- 3.2.1 The limits for emissions to air apply as follows:
 - (a) The limits in table S3.1 shall not be exceeded except during periods of abnormal operation.
 - (b) The limits in table S3.1 (a) shall not be exceeded during abnormal operation.
- 3.2.2 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in schedule 3 table S3.1 and S3.1(a); 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 of the emission limit values:

•	Carbon monoxide	10%
•	Sulphur dioxide	20%
•	Oxides of nitrogen (NO & NO ₂ expressed as NO ₂)	20%
•	Particulate matter	30%
•	Total organic carbon (TOC)	30%
•	Hydrogen chloride	40%
•	Ammonia	40%

- (b) valid half-hourly average values or 10-minute averages shall be determined within the effective operating time (excluding the start-up and shut-down periods) from the measured values after having subtracted the value of the confidence intervals in condition 3.2.2 (a).
- (c) where it is necessary to calibrate or maintain the monitor and this means that data are not available for a complete half-hour or 10 minute period, the half-hourly average or 10-minute average shall in any case be considered valid if measurements are available for a minimum of 20 minutes or 7 minutes during the half-hour or 10-minute period respectively. The number of half-hourly or 10-minute averages so validated shall not exceed 5 or 15 respectively per day;
- (d) daily average values shall be calculated as follows:

the average of valid half hourly averages or 10 minute averages over a calendar day excluding half hourly averages or 10 minute averages during periods of abnormal operation. The daily average value shall be considered valid if no more than five half-hourly average or fifteen 10-minute average values in any day have been determined not to be valid;

(e) no more than ten daily average values per year shall be determined not to be valid.

3.3 Emissions of substances not controlled by emission limits

- 3.3.1 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.
- 3.3.2 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.
- 3.3.3 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.
- 3.3.4 Periodic monitoring shall be carried out monthly for first year of operation and then quarterly for groundwater and annually for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.4 Odour

3.4.1 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.

3.5 Noise and vibration

- 3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.5.2 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.

3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1, S3.1(a), S3.2 and S3.3;
 - (b) process monitoring specified in table S3.3;

- (c) residue quality in table S3.4.
- 3.6.2 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.
- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Environment Agency. Newly installed CEMs, or CEMs replacing existing CEMs, shall have MCERTS certification and unless otherwise agreed in writing by the Environment Agency have an MCERTS certified range which is not greater than 1.5 times the daily emission limit value (ELV) specified in schedule 3 table S3.1. The CEM shall also be able to measure instantaneous values over the ranges which are to be expected during all operating conditions. If it is necessary to use more than one range setting of the CEM to achieve this requirement, the CEM shall be verified for monitoring supplementary, higher ranges. Newly installed Data handling and acquisition systems (DAHS), or DAHS replacing existing DAHS, shall have MCERTS certification.
- 3.6.4 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, S3.1(a) and S3.2 unless otherwise agreed in writing by the Environment Agency.

3.7 Pests

- 3.7.1 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.
- 3.7.2 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.

3.8 Fire prevention

3.8.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

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 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR3), 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 using the annual report form specified in schedule 4, table S4.4 or otherwise in a format agreed with the Environment Agency. 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;
 - (c) the performance parameters set out in schedule 4 table S4.3
 - (d) the functioning and monitoring of the incineration plant in a format agreed with the Environment Agency. The report shall, as a minimum requirement (as required by Chapter IV of the Industrial Emissions Directive) give an account of the running of the process and the emissions into air and water compared with the emission standards in the IED.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
 - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report

- assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

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.
- 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.

4.4 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	5		
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR1	S5.1 A1 (b)	The incineration of non-hazardous waste in a waste incineration plant with	From receipt of waste to emission of exhaust gas and removal from site of waste arising.
		a capacity of 3 tonnes per hour or more.	Waste types and quantities as specified in Table S2.2 and S2.3 of this permit.
	Directly Associated	Activity	
AR2	Electricity Generation	Generation of approximately 4.5 MWe electrical power using a steam turbine from energy recovered from the flue gases.	
AR3	Surface water drainage	Transfer of surface water run-off into site drainage system	Uncontaminated surface water run- off transfer to site drainage system
Activity reference	Description of activ operations	ities for waste	Limits of activities
AR4	Mechanical Treatment and Materials Recycling Facility	R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary	From receipt of waste to transfer of treated waste to the RDF bunker and export of recyclable materials off-site. Waste types and quantities as specified in Table S2.2 of this permit.
AR5		storage, pending collection, on the site where it is produced) R3: Recycling/reclamation of organic substances which are not used as solvents R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials	From receipt of waste to removal from site. Treatment consisting of sorting, separation, screening, baling and shredding. Waste types and quantities as specified in Table S2.4 of this permit

AR6		R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Waste storage during maintenance periods. Waste types and quantities as specified in Table S2.2 of this permit.
AR7		R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Waste storage Waste types and quantities as specified in Table S2.5 of this permit. The amount of batteries stored on site at any one time shall not exceed 100 kg
	Description of activit discharges	ies for water	Limits of activity
AR8	Discharge of surface water	Discharge of surface water from waste operation area of the site	Discharge of surface water from emission point W1

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Application documents: • Section II – summary of proposed changes • Section III – Supporting information • Excluding references to Gasification plant (as replaced by incineration plant covered within Application for variation EPR/QP3337AD/V003).	12/02/16
Response to Schedule 5 Notice dated 03/03/16	The response to questions 6 and 7 Odour management plan	24/03/16
Response to schedule 5 notice dated 06/04/16	Fire prevention plan	26/04/16
Application for variation EPR/QP3337AD/V003	Variation application documents : change technology from Gasification to Moved Bed Incinerator (direct burn incineration)	31/05/17
Response to Schedule 5	All – part 1:	07/07/17
Notice dated 16/06/17	All – part 2:	12/07/17
Additional Information	Email confirming reporting reference conditions (incineration)	09/08/17
	AQIA Forest Road EP Variation rev3	06/09/17
	Confirmation that the CEMs monitoring will include Ammonia and N ₂ O monitoring	22/09/17
	Confirmation of separate abatement feed / injection and abnormal emissions for HCL (at receptor)	20/10/17
Response to regulation 61 notice	Operating techniques as set out in the response to the regulation 61 notice.	05/07/22

Reference	Requirement	Date
IC1	The Operator shall submit a written report to the Environment Agency on the implementation of its Environmental Management System and the progress made in the certification of the system by an external body or if appropriate submit a schedule by which the EMS will be certified.	Completed
IC2	The Operator shall submit a written proposal to the Environment Agency to carry out tests to determine the size distribution of the particulate matter in the exhaust gas emissions to air from emission point A5, identifying the fractions within the PM ₁₀ , and PM _{2.5} ranges. On receipt of written approval from the Environment Agency to the proposal and the timetable, the Operator shall carry out the tests and submit to the Environment Agency a report on the results.	Within 6 months of the completion of commissioning of activity reference AR1
IC3	The Operator shall submit a written report to the Environment Agency on the commissioning of activity references AR4 – AR7. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions and confirm that the Environmental Management System (EMS) has been updated accordingly.	Completed
IC4	The Operator shall submit a written report to the Environment Agency on the commissioning of activity reference AR1. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions and confirm that the Environmental Management System (EMS) has been updated accordingly.	Within 4 months of the completion of commissioning of activity reference AR1
IC5	The Operator shall carry out checks to verify the residence time, minimum temperature and oxygen content of the exhaust gases in the furnace whilst operating under the anticipated most unfavourable operating conditions. The results shall be submitted in writing to the Environment Agency and include a comparison with the CFD modelling submitted by pre-operational condition PO5.	Within 4 months of the completion of commissioning of activity reference AR1.
IC6	 The Operator shall submit a written report to the Environment Agency describing the performance and optimisation of: The Selective Non Catalytic Reduction (SNCR) system and combustion settings to minimise oxides of nitrogen (NO_x). The report shall include an assessment of the level of NO_x, N₂O and NH₃ emissions that can be achieved under optimum operating conditions. The lime injection system for minimisation of acid gas emissions The carbon injection system for minimisation of dioxin and heavy metal emissions. 	Within 4 months of the completion of commissioning of activity reference AR1
IC7	The Operator shall submit the written protocol referenced in condition 3.2.4 for the monitoring of soil and groundwater for approval by the Environment Agency. The protocol shall demonstrate how the Operator will meet the requirements of Articles 14(1)(b), 14(1)(e) and 16(2) of the IED.	Within 12 months from completion of commissioning of activity reference AR1.

Reference	Requirement	Date
	The procedure shall be implemented in accordance with the written approval from the Agency.	
IC8	The Operator shall carry out an assessment of the impact of emissions to air of the following component metals subject to emission limit values: Cr(VI) and As. A report on the assessment shall be made to the Environment Agency. Emissions monitoring data obtained during the first year of operation shall be used to compare the actual emissions with those assumed in the impact assessment submitted with the Application. An assessment shall be made of the impact of each metal against the relevant environmental standard (ES). In the event that the assessment shows that an ES can be exceeded, the report shall include proposals for further investigative work.	15 months from the completion of commissioning of activity reference AR1.
IC9	The Operator shall submit a written summary report to the Environment Agency to confirm by the results of calibration and verification testing that the performance of Continuous Emission Monitors for parameters as specified in Table S3.1 and Table S3.1(a) complies with the requirements of BS EN 14181, specifically the requirements of QAL1, QAL2 and QAL3.	Initial calibration report to be submitted to the Agency within 3 months of completion of commissioning of activity reference AR1. Full summary evidence compliance report to be submitted within 18 months of completion of commissioning of activity reference AR1.
IC10	 The Operator shall undertake a review of water usage and management throughout the site with consideration of BAT (Best Available Techniques), and provide a written report to the Environment Agency of the review. The report shall include:- An updated water balance diagram. A feasibility study for options to use water more efficiently within the Installation, including but not limited to, the replacement of the single pass water system with a multi-pass water system. Where efficiency measures cannot be made, the operator shall provide detailed justification (with evidence such as cost benefit analysis) for not implementing such measures. Where any improvement measures are identified, the operator shall provide a timescale for their implementation for written approval by the Environment Agency. 	Within 12 months from completion of commissioning of activity reference AR1.
IC11	The operator shall perform a study to determine the extent to which the operation of the current systems in place at the plant to minimise NOx emissions can be further optimised such that emissions are reduced as far as possible below 180 mg/Nm³ as a daily average, without significantly increasing emissions of other pollutants or having a significant negative effect on plant operation, reliability or bottom ash quality. The study shall	30/09/23

Table S1.3 Ir	mprovement programme requirements	
Reference	Requirement	Date
	be based on the results of trials carried out at the installation and shall have regard to the recommendations for test conditions set out in Section 5.4.3 of report titled 'Establishing factors that influence NOx reduction at waste incineration plant to levels below the upper end of the BAT-AELs' (dated 14/01/2022), or other methodology agreed in writing with the Environment Agency. A written report of the study shall be submitted to the Environment Agency which shall include but not necessarily be limited to the following: • A brief description of the currently installed measures at the installation to minimise NOx emissions, including details of how the reagent dosing system responds to emissions monitoring data and historic data which illustrates the current achievable level of daily NOx emissions.	
	The results of trials conducted to further reduce daily average NOx emissions using currently installed measures, including: a description of the parameters that were varied during the trial e.g. ammonia or urea feed rates, physical form of urea injected, air flows, and the range over which they were varied the levels of NOx achieved and associated levels of ammonia and nitrous oxide emissions and reagent consumption observed effects and predicted long-term impacts on plant operation, reliability and maintenance regime any changes to the composition of the bottom ash and boiler ash and the implications of those changes for the ability to process and use the ash, as well as for the pollution potential of the ash both during processing and its subsequent use as a secondary aggregate any other relevant cross-media effects The report shall also include a description of the extent to which current systems in place at the plant to minimise NOx emissions can be optimised on a permanent basis, including justification and an implementation plan where relevant.	
IC12	The operator shall submit a report to the Environment Agency on whether waste feed to the plant can be proven to have a low and stable mercury content. The report shall have regard to BAT 4 of the BAT conclusions, be based on historic mercury emissions monitoring data and have regard to the Environment Agency Mercury Monitoring Protocol.	30/09/23
IC13	The operator shall submit a report to the Environment Agency on whether dioxin emissions to air are stable. The report shall have regard to BAT 4 of the BAT conclusions, be based on historic dioxin emissions monitoring data and have regard to the Environment Agency Dioxins Monitoring Protocol.	30/09/23

Reference	Requirement	Date				
IC14	The operator shall calculate the gross electrical efficiency using the method set out in the general considerations section of the BAT conclusions and submit details of the calculation to the Environment Agency. The calculation shall use the R1 efficiency status, boiler efficiency determination guidance (or other methodology as agreed in writing with the Environment Agency) to calculate boiler efficiency which can then be used to calculate Qth.					
	Where the calculated gross electrical efficiency is below the range specified in BAT 20 of the BAT conclusions, the operator shall carry out an assessment of the opportunities to increase the energy efficiency of the installation.					
	The assessment shall include but not necessarily be limited to:					
	 Improvements that could be made to the furnace (including control systems) in order to increase the amount of thermal energy produced per unit of thermal energy in the waste. Where relevant, improvements that could be made to the steam system and related components to allow a greater quantity of electricity to be generated per unit of thermal energy in the steam. Improvements in the heat and electrical efficiency of the plant's ancillary systems that could be made in order to reduce the heat and electrical loads of the plant. Where relevant, an implementation plan for the improvements identified, including the anticipated increase in the gross and/or net electrical efficiency of the plant which would be achieved. A written copy of the assessment shall be submitted to the Environment Agency. 					

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels				
Raw materials and fuel description	Specification			
Fuel Oil	< 0.1% sulphur content			

	rmitted waste types and quantities for mechanical treatment plant and then fter treatment.
Maximum quantity	47,400 tonnes per year for mechanical treatment. 44,000 tonnes per year of waste for incineration after treatment. 2000 tonnes per year for storage prior to transfer off-site.
Waste code	Description
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.
15 01	packaging (including separately collected municipal packaging waste)
15 01 03	wooden packaging
15 01 05	composite packaging
15 01 06	Mixed packaging
15 02	absorbents, filter materials, wiping cloths and protective clothing
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 02	wood, glass and plastic
17 02 01	wood
17 02 03	plastic
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03	premixed wastes composed only of non-hazardous wastes
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 05	wastes from aerobic treatment of solid wastes
19 05 01	non-composted fraction of municipal and similar wastes
19 05 02	non-composted fraction of animal and vegetable waste
19 05 03	off-specification compost
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 07	wood other than that mentioned in 19 12 06
19 12 10	combustible waste (refuse derived fuel)

	rmitted waste types and quantities for mechanical treatment plant and then fter treatment.
Maximum quantity	47,400 tonnes per year for mechanical treatment. 44,000 tonnes per year of waste for incineration after treatment. 2000 tonnes per year for storage prior to transfer off-site.
Waste code	Description
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 38	wood other than that mentioned in 20 01 37
20 01 39	plastics
20 01 99	other fractions not otherwise specified (comprising only of non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection)
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste
20 02 03	other non-biodegradable wastes
20 03	other municipal wastes
20 03 01	mixed municipal waste
20 03 02	waste from markets
20 03 03	street-cleaning residues
20 03 07	bulky waste

Table S2.3 Pe	rmitted waste types and quantities for incineration
Maximum quantity	44,000 tonnes per year including waste from onsite mechanical treatment plant
Waste code	Description
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 10	combustible waste (refuse derived fuel)
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 99	other fractions not otherwise specified (comprising only of non-clinical human and animal offensive/hygiene waste (not arising from healthcare and/or related research i.e. not including waste from natal care, diagnosis, treatment or prevention of disease) which is not subject to special requirements in order to prevent infection)

	ermitted waste types and quantities for materials recovery facility
Maximum quantity	32,600 tonnes per year
Waste code	Description
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging
15 01 02	plastic packaging
15 01 03	wooden packaging
15 01 04	metallic packaging
15 01 05	composite packaging
15 01 06	mixed packaging
15 01 07	glass packaging
15 01 09	textile packaging
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard
19 12 02	ferrous metal
19 12 03	non-ferrous metal
19 12 04	plastic and rubber
19 12 10	combustible waste (refuse derived fuel)
19 12 10 20	combustible waste (refuse derived fuel) Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20	Municipal wastes (household waste and similar commercial, industrial and
20 20 01	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 20 01 20 01 01	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions separately collected fractions (except 15 01)
20 01 20 01 01 20 01 08	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions separately collected fractions (except 15 01) paper and cardboard
20 01 20 01 01 20 01 08 20 01 10	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions separately collected fractions (except 15 01) paper and cardboard biodegradable kitchen and canteen waste
	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions separately collected fractions (except 15 01) paper and cardboard biodegradable kitchen and canteen waste clothes

Table S2.5 Pe	rmitted waste types and quantities for storage			
Maximum quantity	5000 tonnes per year The amount of betteries stored on site at any one time shall not exceed 100 kg			
Waste code	The amount of batteries stored on site at any one time shall not exceed 100 kg Description			
waste code	Description			
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions			
20 01	separately collected fractions (except 15 01)			
20 01 08	biodegradable kitchen and canteen waste			
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries			
20 01 34	batteries and accumulators other than those mentioned in 20 01 33			

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A1 to A4	No emissions permitted	Previous gasification plant emission points	-	-	-	-
A5 (as shown on site plan fig 2 in variation application V003)	Particulate matter	Incineration exhausts gases	30 mg/m ³	½-hr average	Continuous	EN 14181
	Particulate matter		10 mg/m ³ Until 02/12/2023	daily average	Continuous	EN 14181
			5 mg/m ³ from 03/12/2023			
	Total Organic Carbon (TOC)		20 mg/m ³	½-hr average	Continuous	EN 14181
	Total Organic Carbon (TOC)		10 mg/m ³	daily average	Continuous	EN 14181
	Hydrogen chloride		60 mg/m ³	½-hr average	Continuous	EN 14181

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A5 (as shown on site plan fig 2 in variation application V003)	Hydrogen chloride	Incineration exhausts gases	10 mg/m ³ Until 02/12/2023	daily average	Continuous	EN 14181
			8 mg/m ³ from 03/12/2023			
	Hydrogen fluoride		2 mg/m³ until 02/12/2023	Average of three consecutive measurements of at	Quarterly in first year of operation then Bi-annually	CEN TS 17340 [BS ISO 15713 can be used until 01/03/22]
			1 mg/m³ from 03/12/2023	least 30 minutes each		
	Carbon monoxide	minute averages in any 24-hour period	150 mg/m ³	minute averages in	Continuous	EN 14181
	Carbon monoxide		Continuous	EN 14181		
	40 mg/m ³	200 mg/m ³	½-hr average	Continuous	EN 14181	
			50 mg/m ³ Until 02/12/2023	daily average	Continuous	EN 14181
			40 mg/m ³ from 03/12/2023			

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A5 (as shown on site plan fig 2 in variation application V003)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Incineration exhausts gases	400 mg/m ³	½-hr average	Continuous	EN 14181
	and NO $_2$ expressed as NO $_2$) Until 02/12/2023 180 mg/m $_3$ from 03/12/2023 Cadmium & thallium and 0.05 until Average of three Quarte		daily average	Continuous	EN 14181	
		Quarterly in first year of operation then bi-annually	BS EN 14385			
		•	least 30 minutes			
	Mercury and its compounds		0.05 mg/m ³ until 02/12/2023	Average of three consecutive measurements of at least 30 minutes each	Quarterly in first year then bi- annually until 02/12/2023	BS EN 13211

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
	Mercury and its compounds	Incineration exhausts gases	0.02 mg/m ³ from 03/12/2023	Average of three consecutive measurements of at least 30 minutes each	[Quarterly in first year of operation then] bi-annually from 03/12/2023	BS EN 13211
			Limit does not apply if continuous monitoring has been specified by the Environment Agency		Not required if continuous monitoring has been specified by the Environment Agency	
	Mercury and its compounds Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total)		0.02 mg/m ³ from 03/12/2023	Daily average	Continuous from 03/12/2023 Not required unless continuous monitoring has been specified by the Environment Agency in line with sampling protocol	EN 14181
			0.5 mg/m ³ Until 02/12/2023 0.3 mg/m ³ from 03/12/2023	Average of three consecutive measurements of at least 30 minutes each	Quarterly in first year of operation then bi-annually	BS EN 14385
	Exhaust gas temperature		No limit set	-	Continuous	Traceable to national standards
	Exhaust gas pressure		No limit set	-	Continuous	Traceable to national standards

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A5 (as	Exhaust gas flow	Incineration	No limit set	-	Continuous from 01/01/2023	BS EN 16911-2
shown on site plan fig 2 in	Exhaust gas oxygen content	exhausts gases	No limit set	-	Continuous	EN 14181
variation application V003)	Exhaust gas water vapour content		No limit set	-	Continuous	EN 14181
	Ammonia (NH ₃)	NH ₃)	20 mg/m ³ Until 02/12/2023	daily average	Continuous	EN 14181
			15 mg/m ³			
	Nitrous oxide (N ₂ O)		No limit set	½-hr average and daily average	Continuous from 01/01/2023	EN 14181
	Carbon dioxide		No limit set	Continuous	Continuous from 01/01/2023	EN 14181
A5 (as shown on site plan fig 2 in	Dioxins / furans (I-TEQ)	Incineration exhausts gases	0.1 ng/m ³ Until 02/12/2023	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year of operation then bi-annually until 02/12/2023	BS EN 1948 Parts 1, 2 and 3

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
variation application V003)	Dioxins / furans (I-TEQ)		0.06 ng/m ³ from 03/12/2023	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year of operation then bi-annually from 03/12/2023	EN 1948 Parts 1, 2 and 3
			and 0.08 ng/m³ if long term limit is specified by the Environment Agency in line with sampling protocol from 03/12/2023	and value over sampling period of 2 to 4 weeks for long term sampling	and long term sampling if specified by the Environment Agency in line with sampling protocol from 03/12/2023	and CEN TS 1948-5 if specified by the Environment Agency in line with sampling protocol

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
A5 (as shown on site plan fig 2 in variation	Dioxin-like PCBs (WHO- TEQ Humans / Mammals, Fish, Birds)	Incineration exhausts gases	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year of operation then bi-annually	EN 1948 Parts 1, 2 and 4
application V003)				and		and
Vous					and	and
				value over sampling period of 2 to 4 weeks for long term sampling	long term sampling if specified by the Environment Agency in line with sampling protocol from 03/12/2023. No monitoring is required if emissions have been shown to be below 0.01 ng/m³ as agreed with the Environment Agency.	CEN TS 1948-5 if specified by the Environment Agency in line with sampling protocol
	Dioxins / furans (WHO-TEQ Humans / Mammals, Fish, Birds)		No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year of operation then bi-annually	BS EN 1948 Parts 1, 2 and 3
	Polybrominated dibenzo- dioxins and furans	-	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Quarterly in first year of operation then bi-annually from 01/01/2023	Method based on procedural requirements of EN 1948

Emission point ref. &	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard(s) or method(s)
location			dint <i>y</i>			or memou(s)
A5 (as shown on site plan fig 2 in variation application V003)	Specific individual polycyclic aromatic hydrocarbons (PAHs), as specified in Schedule 6.	Incineration exhausts gases	No limit set	periodic over minimum 6 hours, maximum 8 hour period	Annually	BS ISO 11338 Parts 1 and 2.
A6 (as shown on site plan fig 2 in variation application V003)		Carbon filter for odour abatement on waste processing building				
A7 (as shown on site plan fig 2 in variation application V003)	No parameters set	Supplementary fuel tank vent	No limit set	-	-	-
A8 (as shown on site plan fig 2 in variation application V003)		Lime and activated carbon storage silo vents				
A9 (as shown on site plan fig 2 in variation application V003)		Ash quench steam release vent				

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A5 (as shown	Particulate matter		150 mg/m ³	1/2-hr average	Continuous	or alternative surrogate as agreed in writing with the environment agency during failure of the continuous emission monitor
on site plan fig 2 in variation application V003)	Total Organic Carbon (TOC)	Incineration exhausts gases	20 mg/m ³	⅓-hr average	Continuous	or alternative surrogate as agreed in writing with the environment agency during failure of the continuous emission monitor
	Carbon monoxide		150 mg/m ³	95% of all 10-minute averages in any 24- hour period	Continuous	or alternative surrogate as agreed in writing with the environment agency during failure of the continuous emission monitor

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 (Emission to unnamed Brook as shown on figure 2 in variation application V003)	Uncontaminated surface water run off (comprising roof water drainage and drainage from uncontaminated areas of the site only) via interceptor	No parameters set	No limits set	-	-	-

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site- emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 (emission to Southern Water Sewer)	Process effluent	No parameters set	No limits set	-	-	-

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
As identified in the Application	Wind Speed and Direction	Continuous	Anemometer	
Location close to the Combustion Chamber inner wall or as identified and justified in Application.	Temperature (° C)	Continuous	Traceable to national standards	As agreed in writing with the Agency.
Incineration plant	Gross electrical efficiency	within 6 months of any modification that significantly affects energy efficiency	Performance test at full load or other method as agreed in writing with the Environment Agency	

Table S3.5 Residue quality					
Emission point reference or source or description of point of measurement	Parameter	Limit	Monitoring frequency	Monitoring standard or method *	Other specifications
Bottom Ash	LOI or otherwise as agreed in writing with the Environment Agency	5% or otherwise as agreed in writing with the Environment Agency	Monthly in the first year of operation then Quarterly	EN 14899 and either EN 15169 or EN 15935 or otherwise as agreed in writing with the Environment Agency	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'
Bottom Ash	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.		Monthly in the first year of operation then Quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	
Bottom Ash	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions		Before use of a new disposal or recycling route	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	
APC Residues	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.		Monthly in the first year of operation then Quarterly	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	

Table S3.5 Residue quality					
Emission point reference or source or description of point of measurement	Parameter	Limit	Monitoring frequency	Monitoring standard or method *	Other specifications
APC Residues	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions		Before use of a new disposal or recycling route	Environment Agency Guidance, 'TGN M4 – Guidelines for Ash Sampling and Analysis'	

^{*} Or other equivalent standard as agreed in writing with the Environment Agency.

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	g data		
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.6.1.	A5	Quarterly	1 Jan, 1 Apr, 1 Jul and 1 Oct
LOI or otherwise as agreed in writing with the Environment Agency Parameters as required by condition 3.6.1	Bottom Ash	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs Parameters as required by condition 3.6.1	Bottom Ash	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions Parameters as required by condition 3.6.1	Bottom Ash	Before use of a new disposal or recycling route	
Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs Parameters as required by condition 3.6.1	APC Residues	Quarterly (but monthly for the first year of operation)	1 Jan, 1 Apr, 1 Jul and 1 Oct
Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions Parameters as required by condition 3.6.1	APC Residues	Before use of a new disposal or recycling route	

Table S4.2: Annual production/treatment		
Parameter	Units	
Total Waste Incinerated	tonnes	
Electrical energy produced	kWh	
Thermal energy produced e.g. steam for export	kWh	
Electrical energy exported	kWh	
Electrical energy used on installation	kWh	
Waste heat utilised by the installation	kWh	

Table S4.3 Performance parameters	Table S4.3 Performance parameters				
Parameter	Frequency of assessment	Units			
Annual Report as required by condition 4.2.2	Annually	-			
Electrical energy exported, imported and used at the installation	Annually	kWh / tonne of waste incinerated			
Fuel oil consumption	Annually	kg / tonne of waste incinerated			
Bottom Ash residue	Annually	Route, tonnes and tonnes / tonne of waste incinerated			
APC residue	Annually	Route, tonnes and tonnes / tonne of waste incinerated			
Other solid residues	Annually	Route, tonnes and tonnes / tonne of waste incinerated			
Urea consumption	Annually	kg / tonne of waste incinerated			
Activated Carbon consumption	Annually	kg / tonne of waste incinerated			
Lime consumption	Annually	kg / tonne of waste incinerated			
Water consumption	Annually	kg / tonne of waste incinerated			
Periods of abnormal operation	Annually	No of occasions and cumulative hours for current calendar year for each line.			

Table S4.4 Reporting forms				
Media/parameter	Reporting format	Date of form		
Annual report required by condition 4.2.2	Annual performance report template	05/10/2022		
Emissions to air until 02/12/2023	Form air 1 or other forms as agreed in writing by the Environment Agency	-		

Table S4.4 Reporting forms				
Media/parameter	Reporting format	Date of form		
Emissions to air from 03/12/2023	Forms air 1-9 or other forms as agreed in writing by the Environment Agency	05/10/2022		
Residue quality	Form residue 1 and 2 or other form as agreed in writing by the Environment Agency	05/10/2022		

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	
	any malfunction, breakdown or failure of equipment or techniques, ince not controlled by an emission limit which has caused, is 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 t	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 t			
To be notified within 24 hours of	detection unless of	otherwise specified belo	ow
Measures taken, or intended to be taken, to stop the emission			
Time periods for notification follo	wing detection of	a breach of a limit	
Parameter	<u> </u>		Notification period
			1
(a) Natification named and the feet	ha huanah at marun	uit aauditiana nat nalat	ad to limite
(c) Notification requirements for to be notified within 24 hours of det		int conditions not relate	eu to iimits
Condition breached	ection		
Date, time and duration of breach			
Details of the permit breach i.e.			
what happened including impacts			
observed.			
Magazza talcan arintandad ta ba			
Measures taken, or intended to be taken, to restore permit			
compliance.			
(d) Notification requirements for t		ny significant adverse e	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 submit	ted as soon	as practicable	9
Any more accurate information on the notification under Part A.	ne matters for		

·

Date

^{*} authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"abatement equipment" means that equipment dedicated to the removal of polluting substances from releases from the installation to air or water media.

"abnormal operation" means: any technically unavoidable stoppages, disturbances, or failures of the plant or the measurement devices. Abnormal operation starts as defined in condition 2.3.12 and ends as defined in condition 2.3.13. Abnormal operation is limited to 4 hours for a single occurrence and a total of 60 hours per year per line.

"accident" means an accident that may result in pollution.

"APC residues" means air pollution control residues

"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.

"BAT conclusions" means Commission Implementing Decision (EU) 2019/2010 of 12 November 2019 establishing the best available techniques (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for Waste Incineration

"bottom ash" means ash which is generated during the incineration process and which is mechanically moved along the incinerator bed prior to extraction by an ash conveyor

"CEM" Continuous emission monitor

"CEN" means Commité Européen de Normalisation

"bi-annually" means twice per year with at least five months between tests;

"Commissioning" means testing of the new incineration plant that involves any operation of the furnace or as agreed with the Environment Agency.

Daily average emissions value means 'the average of at least 43 valid half hourly averages or for CO the average of at least 43 valid half hourly averages or 129 valid 10 min averages'

"dioxin and furans" means polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans.

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

"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.

"Hazardous property" has the meaning in Annex III of the Waste Framework Directive

"incineration line" means all of the incineration equipment related to a common discharge to air location.

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

"ISO" means International Standards Organisation.

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

"LOI" means loss on ignition a technique used to determine the combustible material by heating the ash residue to a high temperature

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"PAH" means Poly-cyclic aromatic hydrocarbon, and comprises Anthanthrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[b]naph(2,1-d)thiophene, Benzo[c]phenanthrene, Benzo[ghi]perylene, Benzo[a]pyrene, Cholanthrene, Chrysene, Cyclopenta[c,d]pyrene, Dibenzo[ah]anthracene, Dibenzo[a,i]pyrene Fluoranthene, Indo[1,2,3-cd]pyrene, Naphthalene

"PCB" means Polychlorinated Biphenyl. Dioxin-like PCBs are the non-ortho and mono-ortho PCBs listed in the table below.

"Pests" means Birds, Vermin and Insects.

"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.

"start up" is any period, where the plant has been non-operational, until waste has been fed to the plant in a sufficient quantity to initiate steady-state conditions as described in the application or agreed in writing with the Environment Agency.

"shut down" is any period where the plant is being returned to a non-operational state as described in the application or agreed in writing with the Environment Agency. "TOC" means Total Organic Carbon. In respect of releases to air, this means the gaseous and vaporous organic substances, expressed as TOC. In respect of Bottom Ash, this means the total carbon content of all organic species present in the ash (excluding carbon in elemental form).

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

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

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

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

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content
- (c) in relation to gases from incineration plants other than those burning waste oil, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 11% dry

For dioxins/furans and dioxin-like PCBs the determination of the toxic equivalence concentration (I-TEQ, & WHO-TEQ for dioxins/furans, WHO-TEQ for dioxin-like PCBs) stated as a release limit and/ or reporting requirement, the mass concentrations of the following congeners have to be multiplied with their respective toxic equivalence factors before summing. When reporting on measurements of dioxins/furans and dioxin-like PCBs, the toxic equivalence concentrations should be reported as a range based on: all congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit

assumed to be at the detection limit as a maximum. However the minimum value should be used when assessing compliance with the emission limit value in table S3.1.

TEF schemes for dioxins and furans					
Congener	I-TEF	WHO-TEF			
	1990	2005	1997/8		
		Humans / Mammals	Fish	Birds	
Dioxins					
2,3,7,8-TCDD	1	1	1	1	
1,2,3,7,8-PeCDD	0.5	1	1	1	
1,2,3,4,7,8-HxCDD	0.1	0.1	0.5	0.05	
1,2,3,6,7,8-HxCDD	0.1	0.1	0.01	0.01	
1,2,3,7,8,9-HxCDD	0.1	0.1	0.01	0.1	
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.001	<0.001	
OCDD	0.001	0.0003	-	-	
Furans					
2,3,7,8-TCDF	0.1	0.1	0.05	1	
1,2,3,7,8-PeCDF	0.05	0.03	0.05	0.1	
2,3,4,7,8-PeCDF	0.5	0.3	0.5	1	
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1	0.1	
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1	0.1	
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1	0.1	
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1	0.1	
1,2,3,4,6,7,8_HpCDF	0.01	0.01	0.01	0.01	
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.01	0.01	
OCDF	0.001	0.0003	0.0001	0.0001	

TEF schemes for dioxin-like PCBs				
Congener	WHO-TEF			
	2005	1997/8		
	Humans / mammals	Fish	Birds	
Non-ortho PCBs				
3,4,4',5-TCB (81)	0.0001	0.0005	0.1	
3,3',4,4'-TCB (77)	0.0003	0.0001	0.05	
3,3',4,4',5 - PeCB (126)	0.1	0.005	0.1	
3,3',4,4',5,5'-HxCB(169)	0.03	0.00005	0.001	
Mono-ortho PCBs				

TEF schemes for dioxin-like PCBs				
Congener	WHO-TEF			
	2005	1997/8		
	Humans / mammals	Fish	Birds	
2,3,3',4,4'-PeCB (105)	0.00003	<0.000005	0.0001	
2,3,4,4',5-PeCB (114)	0.00003	<0.000005	0.0001	
2,3',4,4',5-PeCB (118)	0.00003	<0.000005	0.00001	
2',3,4,4',5-PeCB (123)	0.00003	<0.000005	0.00001	
2,3,3',4,4',5-HxCB (156)	0.00003	<0.000005	0.0001	
2,3,3',4,4',5'-HxCB (157)	0.00003	<0.000005	0.0001	
2,3',4,4',5,5'-HxCB (167)	0.00003	<0.000005	0.00001	
2,3,3',4,4',5,5'-HpCB (189)	0.00003	<0.000005	0.00001	

[&]quot;year" means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2, for that table/those tables, they have the meaning given below:

'hazardous substance' means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

'heavy metal' means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

'PCBs' means

- polychlorinated biphenyls
- polychlorinated terphenyls
- monomethyl-tetrachlorodiphenyl methane, Monomethyl-dichloro-diphenyl methane, Monomethyldibromo-diphenyl methane
- any mixture containing any of the above mentioned substances in a total of more than 0,005 %by weight

'transition metals' means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified as hazardous substances

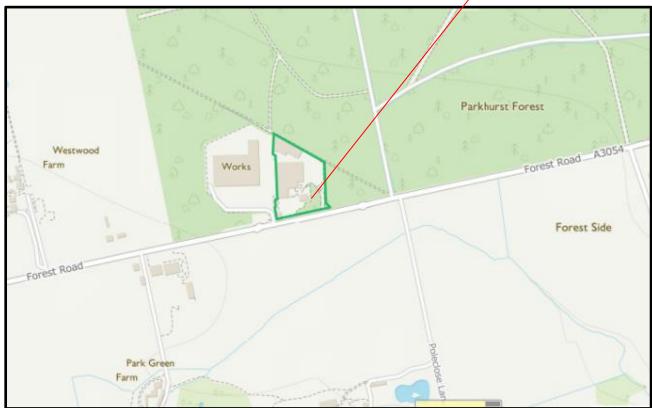
'stabilisation' means processes which change the hazardousness of the constituents in the waste and transform hazardous waste into non-hazardous waste

'solidification' means processes which only change the physical state of the waste by using additives without changing the chemical properties of the waste

'partly stabilised wastes' means wastes containing, after the stabilisation process, hazardous constituents which have not been changed completely into non-hazardous constituents and could be released into the environment in the short, middle or long term.

Schedule 7 – Site plan





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