

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

O.C.O Technology Limited

Larkshall Mill Aggregate Manufacturing Facility

Larkshall Mill

Wretham

Thetford

Norfolk

IP24 1QY

Permit number

EPR/BP3702MC

Larkshall Mill Aggregate Manufacturing Facility

Permit number EPR/BP3702MC

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The facility treats air pollution control (APC) residues to create an aggregate, across three treatment lines each having a daily throughput capacity of 140 tonnes. APC residues are transferred into a reactor where they are treated with carbon dioxide before being mixed with cement, sand, and water to form pellets. These pellets are then used within the construction industry. The waste treatment activity is supported by associated activities governing waste acceptance, storage, handling, and raw material used in the process.

Processing is all carried out in an enclosed building. There are no direct emissions to groundwater or sewer from the process. Uncontaminated surface water runoff is discharged to a soakaway (lagoon) to be reused within the facility.

The operator has an integrated management system that is certified to ISO 14001 (EMS), ISO 9001 (QA), and ISO 45001 (H&S).

The installation is situated in a light commercial/industrial and agricultural area in East Wretham, approximately 7 km northwest of Thetford. The centre of the site is at National Grid Reference TL 92002 89123. Access to the site is off Thetford Road (A1075). There are a number of residential properties approximately 100 meters northwest of the site. The nearest ecological site is East Wretham Heath SSSI located 400 meters to the south.

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

Status log of the permit		
Description	Date	Comments
Application EPR/BP3702MC/A001	Duly made 20/02/2023	New bespoke application for an aggregates manufacturing facility in Wretham.
Additional information received	06/07/2023	Updated Dust and Emissions Management Plan. Measures to demonstrate Best Available Techniques (BAT) and Chemical Waste Appropriate Measures (CWAM)
Permit determined EPR/BP3702MC (PAS Billing ref. BP3702MC).	10/08/2023	Permit issued to O.C.O Technology Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/BP3702MC

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

O.C.O Technology Limited (“the operator”),

of/whose registered office is/whose principal office is

Montague Place Quayside

Chatham Maritime

Chatham

Kent

ME4 4QU

company registration number 07247345

to operate an installation at

Larkshall Mill Aggregate Manufacturing Facility

Larkshall Mill

Wretham

Thetford

Norfolk

IP24 1QY

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

Name	Date
Eleanor Blackeby	10/08/2023

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 or other approval issued by the Environment Agency.

1.2 Energy efficiency

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

1.3 Efficient use of raw materials

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

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

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

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

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

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

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 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; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 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.
- 2.3.6 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.
- 2.3.7 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.4 Improvement programme

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

2.5 Pre-operational conditions

- 2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4A have been completed.
- 2.5.2 The operations specified in schedule 1 table S1.4B shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

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

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
- (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

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

3.4.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1 and S3.2;

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.

3.7 Fire prevention

- 3.7.1 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.
- 3.7.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;
 - (b) implement the fire prevention plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production/treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and

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

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

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

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 and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	Section 5.3 Part A(1)(a)(vi) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving one or more of the following activities: recycling or reclamation of inorganic materials other than metals or metal compounds.	Treatment of hazardous waste to produce aggregate. R5: Recycling/reclamation of other inorganic materials.	From treatment of hazardous waste to produce aggregate by reaction with carbon dioxide, blending and pelletising in production lines 1, 2 and 3 in the main process building, to storage of output material in the external curing bays as shown in Schedule 7. No more than 420 tonnes per day of hazardous waste shall be treated. The treatment of waste shall not result in deliberate dilution of hazardous substances. All treatment shall take place within a building on an impermeable surface with sealed drainage. No waste types shall be submitted to this activity other than those wastes specified in Schedule 2, Table S2.2 and subject to agreement under pre-operational condition reference number PO2, Table S2.3
AR2	Section 5.6 Part A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes.	Temporary storage of hazardous waste. R13 Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced).	From receipt and storage of hazardous waste on site to its treatment on site. The total amount of waste stored on site at any one time, including both hazardous and non-hazardous waste, shall not exceed 2,850 tonnes. Wastes stored in designated silos and tanks at the locations identified on site plan in Schedule 7. All wastes shall be stored on site for no longer than 6 months. No waste types shall be submitted to this activity other than those hazardous wastes specified in

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
			Schedule 2, Table S2.2 and subject to agreement under pre-operational condition reference number PO2, Table S2.3
Directly Associated Activity			
AR3	The handling and storage of wastes.	R13 Storage prior to treatment of non-hazardous wastes.	<p>From receipt and storage of non-hazardous waste on site to its treatment on site.</p> <p>The total amount of waste stored on site in the external storage area at any one time, including both hazardous and non-hazardous waste, shall not exceed 2,850 tonnes.</p> <p>Handling and storage of wastes shall only be undertaken in areas with an impermeable surface and sealed drainage system.</p> <p>All wastes shall be stored on site for no longer than 6 months.</p> <p>No waste types shall be submitted to this activity other than those non-hazardous wastes specified in Schedule 2, Table S2.2 and subject to agreement under pre-operational condition reference number PO2, Table S2.3</p>
AR4	Storage of raw materials.	Storage of raw materials for use within activity AR1.	<p>Raw materials limited to fillers, binders, water, and carbon dioxide all serving the aggregate manufacturing process.</p> <p>Total storage capacity for cement/other binders is 400 tonnes at any one time.</p> <p>Total storage capacity for sand/limestone/other filler is 600 tonnes at any one time.</p> <p>Total storage capacity for carbon dioxide is 100 tonnes at any one time.</p>
AR5	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water to soakaway (lagoon).	From the collection of uncontaminated roof and site surface water from non-operational areas only to re-use within the facility.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR6	-	Process trials for treatment	As agreed in response to condition 1 in Table S1.4B. Waste types as specified in Table S2.3. Following successful process trials and approval from the Environment Agency, approved waste types may be accepted on site for the purposes of treatment, without the need for further permit variations.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The operating techniques described in the application (Responses to Part B2 and B3 of the application forms and references to supporting documentation). <ul style="list-style-type: none"> • OCO 2020.04/03 - Supporting Statement • OCO 2020.04/05 – Non-technical Summary • OCO 2020 04/06 – Environmental Risk Assessment • OCO 2020.04/08 – BAT Assessment • OCO 2020.04/09 – Dust Management Plan • OCO 2020.04/10 – Noise Management Plan 	Duly Made 20/02/2023
Response to Schedule 5 Notice dated 27/06/2023	Updated Dust and Emissions Management Plan. Measures to demonstrate Best Available Techniques (BAT) and Chemical Waste Appropriate Measures (CWAM)	06/07/2023
Chemical waste: appropriate measures for permitted facilities Version published 18 November 2020	All parts of the appropriate measures' guidance shall apply.	N/A

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall undertake a noise assessment during normal operations in accordance with the procedures given in BS4142:2014 (Rating industrial noise affecting mixed residential and industrial areas) and BS7445: 2003 (Description and measurement of environmental noise) or other methodology as agreed with the Environment Agency - in order to validate the assessment provided within the application. The assessment shall include, but not be limited to: <ul style="list-style-type: none"> • A review of the noise sources from the facility. Where any noise source(s) are identified as exhibiting tonal contributions, they shall be quantified by means of frequency analysis. 	within 12 months of issue of the permit

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> • A review of noise levels from static plant. • Considerations of on-site vehicle movements. <p>A report shall be provided to the Environment Agency detailing the findings of the assessment.</p>	

Table S1.4A Pre-operational measures	
Reference	Pre-operational measures
PO1	The activities listed in Table S1.1 of this permit shall not be brought into operation until the cessation of all existing activities associated with permit number EPR/KB3305ME and a written agreement has been submitted and agreed by the Environment Agency setting out a timetable to fully surrender the permit.

Table S1.4B Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO2	Trials using wastes specified in tables S2.3 of this permit	<p>A written proposal shall be submitted to the Environment Agency and agreed with the Environment Agency. The proposal shall include the following information as a minimum:</p> <ol style="list-style-type: none"> 1. Description of trial – including: <ul style="list-style-type: none"> • The length of time the trials will run; • A comparison of the process against BAT; • Measures taken to prevent accidents and mitigate their consequences; • Success criteria. 2. Waste storage arrangements: Proposed trial capacity: <ul style="list-style-type: none"> • Per batch/run; • Per day; • Total. 3. Proposed waste types: <ul style="list-style-type: none"> • Generic waste description, waste producer and process; • EWC codes; • Chemical composition; • Hazards that the process is targeting; • Other hazards not being targeted. 4. Proposed raw material types: <ul style="list-style-type: none"> • Generic description; • Chemical composition. 5. Description of any changes to emissions, including emission points, concentrations and quantities to air and water and to those described in the original application (including a review of the existing environmental risk assessment).

Schedule 2 – Waste types, raw materials and fuels

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

Table S2.2 Permitted waste types and quantities for hazardous waste treatment and storage	
Maximum quantity	Maximum throughput of waste accepted for treatment or storage under activities AR1 and AR2 shall not exceed 100,000 tonnes per year.
Waste code	Description
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 04	wastes from physical and chemical processing of non-metalliferous minerals
01 04 09	waste sand and clays
10	WASTES FROM THERMAL PROCESSES
10 01	wastes from power stations and other combustion plants (except 19)
10 01 02	coal fly ash
10 01 14*	bottom ash, slag and boiler dust from co-incineration containing dangerous substances (bottom ash sourced from biomass, energy from waste plants only)
10 01 16*	fly ash from co-incineration containing dangerous substances
10 01 18*	wastes from gas cleaning containing dangerous substances
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 04	wastes from calcination and hydration of lime
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 05 06	dredging spoil other than those mentioned in 17 05 05
19 01	wastes from incineration or pyrolysis of waste
19 01 07*	solid waste from gas treatment
19 01 11*	bottom ash and slag containing dangerous substances
19 01 13*	fly ash containing dangerous substances
19 01 14	fly ash other than those mentioned in 19 01 13 (if mixed with APC residues)
19 01 15*	boiler dust containing dangerous substances
19 01 17*	pyrolysis wastes containing dangerous substances
19 04	vitrified waste and wastes from vitrification
19 04 02*	fly ash and other flue-gas treatment wastes
19 11	wastes from oil regeneration
19 11 07*	wastes from flue-gas cleaning

Table S2.3 Permitted waste types and quantities for treatment pending successful trial and approval from the Environment Agency		
Maximum quantity	Maximum throughput to be confirmed following approval of a submitted proposal to the Environment Agency.	
Waste code	Description	Detail
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
01 01	wastes from mineral excavation	
01 01 01	wastes from mineral metalliferous excavation	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials. Non-hazardous materials from mineral processing.
01 01 02	wastes from mineral non-metalliferous excavation	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials. Including materials such as overburden etc.
01 03	wastes from physical and chemical processing of metalliferous minerals	
01 03 06	tailings other than those mentioned in 01 03 04 and 01 03 05	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials. Non-hazardous materials from the separation of ore.
01 03 08	dusty and powdery wastes other than those mentioned in 01 03 07	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials. Non-hazardous materials from the separation of ore.
01 04	wastes from physical and chemical processing of non-metalliferous minerals	
01 04 08	waste gravel and crushed rocks other than those mentioned in 01 04 07	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
01 04 09	waste sand and clays	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
01 04 10	dusty and powdery wastes other than those mentioned in 01 04 07	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
10	WASTES FROM THERMAL PROCESSES	
10 01	wastes from power stations and other combustion plants (except 19)	
10 01 01	bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)	Suitable for use in the manufacture of carbonated aggregate.
10 01 02	coal fly ash	Suitable for use in the manufacture of carbonated aggregate.
10 01 03	fly ash from peat and untreated wood	Suitable for use in the manufacture of carbonated aggregate.

Table S2.3 Permitted waste types and quantities for treatment pending successful trial and approval from the Environment Agency		
Maximum quantity	Maximum throughput to be confirmed following approval of a submitted proposal to the Environment Agency.	
Waste code	Description	Detail
10 01 05	calcium-based reaction wastes from flue-gas desulphurisation in solid form	Suitable for use in the manufacture of carbonated aggregate.
10 01 15	bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14	Suitable for use in the manufacture of carbonated aggregate.
10 01 17	fly ash from co-incineration other than those mentioned in 10 01 16	Suitable for use in the manufacture of carbonated aggregate.
10 01 19	wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18	Suitable for use in the manufacture of carbonated aggregate.
10 01 24	Sand from fluidised beds	Suitable for use in the manufacture of carbonated aggregate.
10 02	wastes from the iron and steel industry	
10 02 01	wastes from the processing of slag	Suitable for use in the manufacture of carbonated aggregate.
10 02 07*	solid wastes from gas treatment containing hazardous substances	Suitable for use in the manufacture of carbonated aggregate.
10 02 08	solid wastes from gas treatment other than those mentioned in 10 02 07	Suitable for use in the manufacture of carbonated aggregate.
10 03	wastes from aluminium thermal metallurgy	
10 03 29*	wastes from treatment of salt slags and black drosses containing hazardous substances	Suitable for use in the manufacture of carbonated aggregate.
10 03 30	wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29	Suitable for use in the manufacture of carbonated aggregate.
10 11	wastes from manufacture of glass and glass products	
10 11 05	particulates and dust	Granular materials only. Suitable for use in the manufacture of carbonated aggregate.
10 11 12	waste glass other than those mentioned in 10 11 11	Granular materials only, suitable for use as a sand replacement.
10 11 15*	solid wastes from flue-gas treatment containing hazardous substances	Suitable for use in the manufacture of carbonated aggregate.
10 11 16	solid wastes from flue-gas treatment other than those mentioned in 10 11 15	Suitable for use in the manufacture of carbonated aggregate.
10 12	wastes from manufacture of ceramic goods, bricks, tiles and construction products	
10 12 03	particulates and dust	Granular materials only. Suitable for use in the manufacture of carbonated aggregate.
10 12 08	waste ceramics, bricks, tiles and construction products (after thermal processing)	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
10 12 09*	solid wastes from gas treatment containing hazardous substances	Suitable for use in the manufacture of carbonated aggregate.

Table S2.3 Permitted waste types and quantities for treatment pending successful trial and approval from the Environment Agency		
Maximum quantity	Maximum throughput to be confirmed following approval of a submitted proposal to the Environment Agency.	
Waste code	Description	Detail
10 12 10	solid wastes from gas treatment other than those mentioned in 10 12 09	Suitable for use in the manufacture of carbonated aggregate.
10 13	wastes from manufacture of cement, lime and plaster and articles and products made from them	
10 13 04	wastes from calcination and hydration of lime	Suitable for use in the manufacture of carbonated aggregate.
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)	Suitable for use in the manufacture of carbonated aggregate.
10 13 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10	Suitable for use in the manufacture of carbonated aggregate.
10 13 12*	solid wastes from gas treatment containing hazardous substances	Suitable for use in the manufacture of carbonated aggregate.
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12	Suitable for use in the manufacture of carbonated aggregate.
10 13 14	waste concrete and concrete sludge	Granular material only, probably pre-treated elsewhere to ensure the physical characteristics are acceptable. Sludge wastes will not be accepted.
15	WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 02	absorbents, filter materials, wiping cloths and protective clothing	
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances	Granular material only (only mineral based absorption media e.g. calcium carbonate or silica powder) used for gas filtration, no textiles or fibre-based materials.
15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	Granular material only (only mineral based absorption media e.g. calcium carbonate or silica powder) used for gas filtration, no textiles or fibre-based materials.
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 08	spent catalysts	
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified	Suitable for use in the manufacture of carbonated aggregate.
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)	Suitable for use in the manufacture of carbonated aggregate.
16 08 07*	spent catalysts contaminated with hazardous substances	Suitable for use in the manufacture of carbonated aggregate.
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 05	soil (including excavated soil from contaminated sites), stones and dredging spoil	
17 05 04	soil and stones other than those mentioned in 17 05 03	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials. Soils will not be processed.

Table S2.3 Permitted waste types and quantities for treatment pending successful trial and approval from the Environment Agency		
Maximum quantity	Maximum throughput to be confirmed following approval of a submitted proposal to the Environment Agency.	
Waste code	Description	Detail
17 05 06	dredging spoil other than those mentioned in 17 05 05	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials. Soils and sludges will not be processed.
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 01	wastes from incineration or pyrolysis of waste	
19 01 12	bottom ash and slag other than those mentioned in 19 01 11	Suitable for use in the manufacture of carbonated aggregate.
19 01 14	fly ash other than those mentioned in 19 01 13	Suitable for use in the manufacture of carbonated aggregate.
19 01 16	boiler dust other than those mentioned in 19 01 15	Suitable for use in the manufacture of carbonated aggregate.
19 01 18	pyrolysis wastes other than those mentioned in 19 01 17	Suitable for use in the manufacture of carbonated aggregate.
19 01 19	sands from fluidised beds	Suitable for use in the manufacture of carbonated aggregate.
19 04	vitrified waste and wastes from vitrification	
19 04 01	vitrified waste	Granular material only. Secondary waste derived from others already listed.
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified	
19 12 05	glass	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
19 12 09	minerals (for example sand, stones)	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
19 12 11*	other wastes (including mixtures of materials) from mechanical treatment of waste containing hazardous substances	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	Granular materials only, suitable for use as a sand replacement, to avoid consumption of virgin materials.

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 – A14. Vents on storage silos and tanks as shown on site plan in Schedule 7.	Residue (APCr), CO ₂ and cement silo vents, via filters.	No parameters set	No limits set	-	-	-
A15 & A16. Air extraction units from the Main Process Building as shown on site plan in Schedule 7.	APCr pelletising lines	Particulates	5 mg/m ³	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months	BS EN 13284-1
		Total volatile organic compounds (TVOC)	No limit set	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months	BS EN 12619
		NH ₃	No limit set	Average value of 3 consecutive measurements of at least 30 minutes each	Every 6 months	EN ISO 21877

Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1. Surface water lagoon/soakaway as shown on site plan in Schedule 7	Uncontaminated site source water from roofs and non-operational areas	Oil & Grease	No visible oil or grease	-	Weekly	Visual

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
Point source emissions to air Parameters as required by condition 3.5.1	A15 & A16. Air extraction units from the Main Process Building as shown on site plan in Schedule 7.	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Waste throughput – for recovery	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“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.

“building” is a covered structure enclosed on all vertical sides that provides sheltered cover and contains emissions of, for example, noise, particulate matter, odour and litter.

“D” means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“disposal” means any of the operations provided for in Annex I to the Waste Framework Directive.

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

“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.

“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.

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

“impermeable surface” means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“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.

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

“Pests” means Birds, Vermin and Insects.

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

“R” means a recovery operation provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on Waste.

“recovery” means any of the operations provided for in Annex II to the Waste Framework Directive.

“sealed drainage” in relation to an impermeable surface means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquid will run off the surface otherwise than via the system
- except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump

“volatile organic compound” (VOC) means any organic compound as well as the fraction of creosote, having at 293.15 K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

“year” means calendar year ending 31 December.

“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, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

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

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

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content “year” means calendar year ending 31 December.

When the following terms appear in the waste code list in Schedule 2, table 2.2 and 2.3, for that 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.

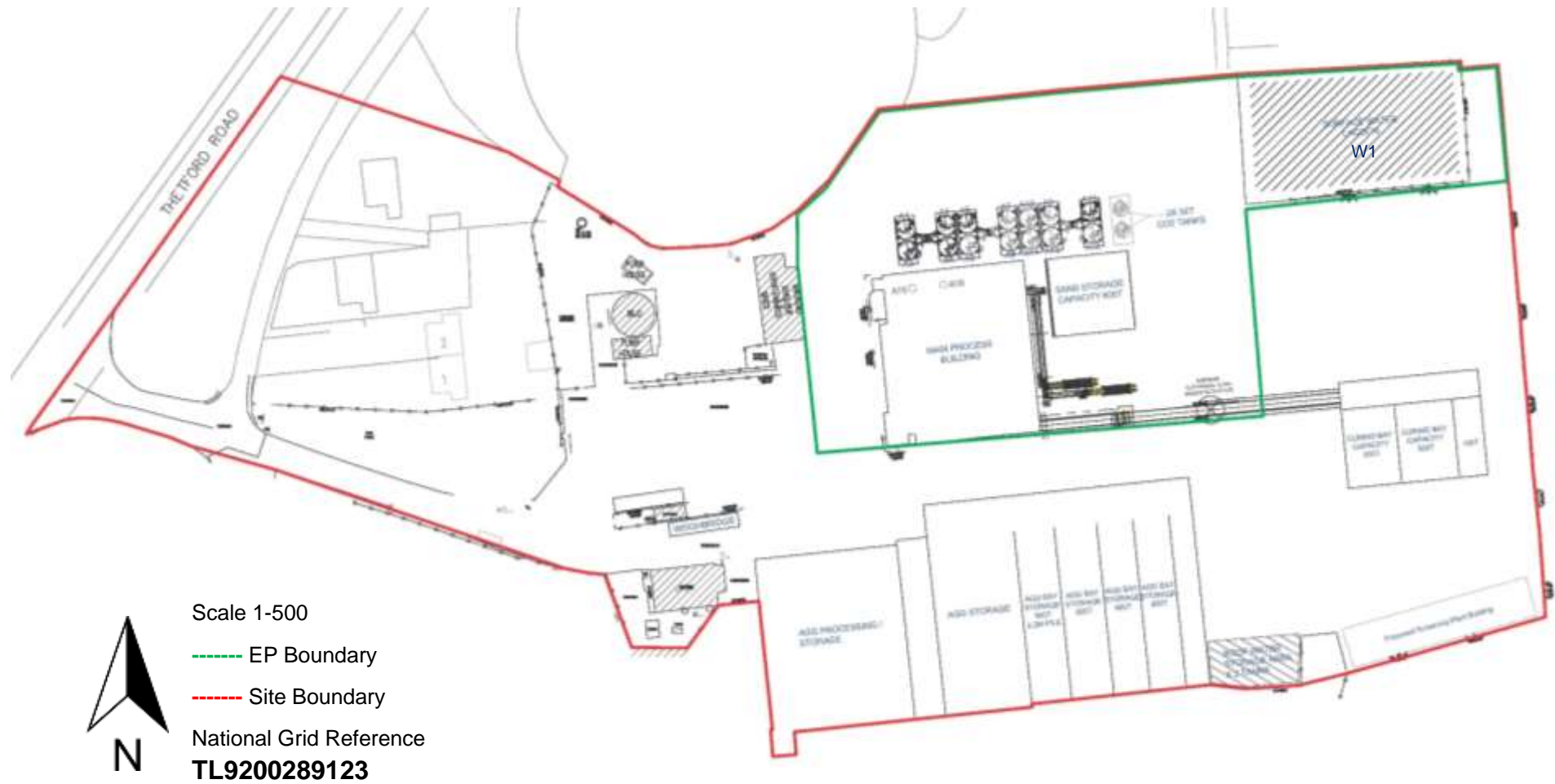
“transition metals” means any of the following metals: any compound of scandium, vanadium, manganese, cobalt, copper, yttrium, niobium, hafnium, tungsten, titanium, chromium, iron, nickel, zinc, zirconium, molybdenum and tantalum, as well as these materials in metallic form, as far as these are classified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

Emissions to Air Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Emissions to Air Reporting Form: version 1, 08/03/2021

Reporting of emissions to air for the period from [DD/MM/YY] to [DD/MM/YY]

Emission point	Substance / parameter	Emission Limit Value	Reference period	Test method ¹	Result ²	Sample dates and times ³	Uncertainty ⁴
[e.g. A1]	[e.g. Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)]	[e.g. 200 mg/m ³]	[e.g. daily average]	[e.g. BS EN 14181]	[State result]	[State relevant dates and time periods]	[State uncertainty if not 95% confidence interval]

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your monitoring results.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Complete columns 1 to 5 using the information from schedule 3 of your permit. Complete columns 6 to 8 with your monitoring data. Add additional rows as necessary.

- ¹ Where an internationally recognised standard test method is used, give the reference number. Where another method that has been formally agreed with the Environment Agency, give the appropriate identifier. In other cases state the principal technique, for example gas chromatography.
- ² Give the result as the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, give the result as the 'minimum to maximum' of the measured values.
- ³ For non-continuous measurements give the date and time of the sample that produced the result. For continuous measurements give the percentage of the process operating time covered by the result.
- ⁴ Complete if the uncertainty associated with the result is not a 95% confidence interval. Leave blank for 95% confidence intervals.

Water Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Water Usage Reporting Form: version 1, 08/03/2021

Reporting of water usage for the year [YYYY]

Water source	Water usage (m ³)	Specific water usage (m ³ /unit) ²
Mains water	[insert annual usage in m ³ where mains water is used]	[insert annual usage in m ³ /unit where mains water is used]
Site borehole	[insert annual usage in m ³ where water is used from a site borehole]	[insert annual usage in m ³ /unit where water is used from a site borehole]
River abstraction	[insert annual usage in m ³ where abstracted river water is used]	[insert annual usage in m ³ /unit where abstracted river water is used]
Other – [specify other water source where applicable. Add extra rows where needed]	[insert annual usage in m ³ where applicable]	[insert annual usage in m ³ /unit where applicable]
Total water usage	[insert total annual water usage in m ³]	[insert total annual water usage in m ³ /unit]

Operator's comments

Signed: [Name]

Date: [DD/MM/YY]

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual water usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

Energy Usage Reporting Form

Permit number: [EPR/AB1234CB]

Operator: [A Company Name Limited]

Facility name: [Unit A, Anytown]

Energy Usage Reporting Form: version 1, 08/03/2021

Reporting of energy usage for the year [YYYY]

Energy source	Energy consumption / production (MWh)	Specific energy consumption (MWh/unit) ²
Electricity imported as delivered - source [specify source, e.g. supplied from the national grid]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Electricity imported as primary energy 1 – conversion factor of [specify conversion factor used to convert electricity delivered to primary energy]	<i>[insert annual consumption in MWh where electricity is imported]</i>	<i>[insert annual consumption in MWh/unit where electricity is imported]</i>
Natural gas	<i>[insert annual consumption in MWh where natural gas is used]</i>	<i>[insert annual consumption in MWh/unit where natural gas is used]</i>
Gas oil – conversion factor of [specify conversion factor used to convert tonnes to MWh]	<i>[insert annual consumption in MWh where gas oil is used]</i>	<i>[insert annual consumption in MWh/unit where gas oil is used]</i>
Imported heat	<i>[insert annual consumption in MWh where heat is imported]</i>	<i>[insert annual consumption in MWh/unit where heat is imported]</i>
Other – <i>[specify other energy source and conversion factors where applicable, e.g. renewable fuel. Add extra rows where needed]</i>	<i>[insert annual consumption in MWh where applicable]</i>	<i>[insert annual consumption in MWh/unit where applicable]</i>
Electricity exported	<i>[insert annual production in MWh where electricity is exported]</i>	Not applicable
Heat exported	<i>[insert annual production in MWh where heat is exported]</i>	Not applicable

Operator's comments

Signed: *[Name]*

Date: *[DD/MM/YY]*

(Authorised to sign as representative of the operator)

Guidance for use: Use this form to report your annual energy usage.

Example text is shown in bracketed grey italics. Replace the example text by entering your own site specific information. Add additional rows as necessary.

¹ Multiply delivered electricity by 2.4 to convert to primary energy where the electricity is supplied from the national grid. If the electricity is supplied from another source, specify the conversion factor used. Add additional rows as needed if electricity is imported from multiple sources.

² Divide energy consumption by an appropriate unit of raw material processed or product output.