

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Karas Plating Limited

Karas Plating
Brooklands Mill
English Street
Leigh
WN7 3EH

Permit number

EPR/FP3636YZ

Karas Plating

Permit number EPR/FP3636YZ

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The main activities carried out at the installation are:-

- surface treating of metals using nickel, copper, silver, tin, zinc and gold.
- other surface treatment techniques include bright dipping, anodising, post-anodising sealing, etching, chromating, passivation, pickling, phosphating and metal stripping.
- the treatment of the effluent that results from the surface treatment activities.

These activities are further described in Table S1.1.

Site location

The site is situated at the south of Leigh, Greater Manchester (approx. National Grid Reference: SJ 66394 99595) and the site covers is approx. 1 hectare. The installation occupies part of the first floor, with the remainder of the building occupied by offices and general commercial use. An effluent treatment plant (ETP) forming part of the installation is located at ground level in a building next to the former boiler house, known as the garage. There are no habitat or sites of special scientific interest within relevant assessment distances.

However, the facility for the duration of its existence has operated from the first floor of the mill building. Directly beneath the installation's plating lines and storage areas, the ground floor is occupied by a bathroom equipment company and, beneath that, the basement is used as a solicitor's document archive.

Activities

There are a number of tanks in use at the site of varying sizes and volumes to allow plating of a wide range of components, the aggregated volume of the surface treatment tanks exceeding 30 m³. The installation comprises ten lines with a total tank volume of 68 m³ and a further stripping room. The lines are made up of 43.5 m³ of treatment tanks and a further 24.5 m³ of rinse tanks.

A detailed breakdown of the individual lines, with tank capacity in use at the site and chemical concentrations is contained in the application.

The nature and quantity of chemical solutions associated with industrial plating operations present the potential for significant pollution in the event of spillages. It appears highly unlikely that significant spillages or long-term leakage from general operations on the first floor would go unreported. Nevertheless, all incidents/spillages are currently recorded in the company management system and preventative steps identified.

The operator maintains an integrated HSQE management system independently certified by a UKAS approved body. The Environmental Aspects and Impacts Register acknowledges the potential impact of spillages and details relevant training to be given. A spillage procedure details actions, responsibilities and the location of containment equipment for use in the event of a spill. A maintenance register and detailed maintenance procedures are also in place.

All substances used are delivered in robust primary containment such as IBCs or drums appropriate for the type and quantity of substance, offloaded in the yard area and then transferred into a goods lift for storage on the first floor. No external storage takes place.

Each treatment line consists of series preparation, treatment and rinse tanks, most of which are double walled. Secondary containment comprises bunding to each treatment line with a capacity at least equal to 110% of the largest tank in the line.

Waste Management

Hazardous waste streams consist of acid and alkali solution transported in IBCs and solid waste from the effluent treatment plant. Types and quantities of waste produced are further detailed in the application.

Treated effluent discharges to the sewer under a United Utilities permission with a maximum quantity of 17m³/day.

Emission points

There are fourteen emission points from the facility: thirteen to air (A1 to A9, A11, A12 (B), A13 (S), A14 (G)) and one to sewer (S1 (ETP1)).

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 EA/EPR/FP3636YZ/A001	Duly made 11/04/18	Application for Surface Treatment facility.
Additional information	26/03/18	Not Duly Made Response: Resubmission of the BAT assessment, risk assessment, H1 assessment and effluent details
Response to Schedule 5 notice dated 01/08/18	14/09/18	<ul style="list-style-type: none"> • Layout and details of lines. • Revised BAT assessment. • Revised Assessment and Site Condition Baseline Report. • COMAH calculations. • Accident Management Plan. • H1 assessment.
Additional Information	04/10/18 05/10/18	<ul style="list-style-type: none"> • Effluent sampling results.
Additional Information	12/10/18	<ul style="list-style-type: none"> • Air Emissions Report.
Response to Schedule 5 notice dated 01/08/18	24/10/18	<ul style="list-style-type: none"> • Layout and details of lines. • Revised BAT assessment. • Accident Management Policy and Plan. • H1 assessment.
Response to Schedule 5 notice dated 01/08/18	5/11/18	<ul style="list-style-type: none"> • Layout and details of lines. • Revised BAT assessment. • Revised H1 assessment.
	17/12/18	<ul style="list-style-type: none"> • Revised H1 assessment.
Additional information received	31/01/19	Email stating the operator is working to Environment Agency guidance How to comply with your environmental permit, Additional guidance for: The

Status log of the permit		
Description	Date	Comments
		Surface Treatment of Metals and Plastics by Electrolytic and Chemical Processes (EPR 2.07).
		Details of Layout for Line 11.
		Confirmation of: <ul style="list-style-type: none"> • Site boundary and site occupancy clarification • Emission point names, and • Schematic of the emission points.
Additional information received	07/02/19	Confirmation of air emission parameters.
Permit determined EPR/FP3636YZ (PAS Billing ref. FP3636YZ).	01/03/19	Permit issued to Karas Plating Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/FP3636YZ

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

Karas Plating Limited ("the operator"),

whose registered office is

71-73 Hoghton Street

Southport

Merseyside

PR9 0PR

company registration number 02970659

to operate an installation at

Karas Plating

Brooklands Mill

English Street

Leigh

WN7 3EH

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

Name	Date
Claire Roberts	01/03/2019

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.

1.2 Energy efficiency

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

1.3 Efficient use of raw materials

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

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

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

2 Operations

2.1 Permitted activities

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

2.2 The site

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

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

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

2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

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

- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Where a substance is specified in schedule 3 table S3.2 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.
- 3.1.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.2 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; and
 - (b) process monitoring specified in table S3.3;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

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

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
 - (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production /treatment data set out in schedule 4 table S4.2; and

- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste or as otherwise agreed in writing with the Environment Agency.

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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

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

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

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

In any other case:

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

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

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

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

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

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

4.4 Interpretation

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

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

Schedule 1 – Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR 01	Section 2.3 Part A(1)(a)	Surface treating of metals using nickel, copper, silver, tin, zinc and gold. Other surface treatment techniques include bright dipping, anodising, post-anodising sealing, etching, chromating, passivation, pickling, phosphating and metal stripping.	Receipt of raw materials to assembly of surface treated finished parts and despatch of finished parts. Total installation vat volume capacity 68 m³ .
AR 02	Section 5.3 Part A(1)(a)(ii)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	Receipt and storage of effluent, effluent treatment and final effluent discharge from site.
AR 03	Section 2.3 Part B(a)	A process for allowing surface treating metals which is likely to result in the release into air of any acid-forming oxide of nitrogen and which does not fall within Part A(1).	Receipt of raw materials to: <ul style="list-style-type: none"> • despatch of treated parts for surface treatment of metals using nitric acid, or • cleaning (including coating removal) surface treatment of metals equipment using nitric acid.
Directly Associated Activity			
AR 04	Directly Associated Activity	Waste Storage and handling	Production, storage, handling and disposal/recovery of process wastes arising from the installation.
AR 05		Fume extraction and fume abatement	Fume extraction ductwork and discharge via abatement or direct to air from emissions A1.
AR 06		Degreasing	From receipt of raw materials to disposal of waste solvent or alkaline. Annual usage of DS93 Prosolve solvent <2 tonnes per annum.
AR 07		Aqueous & ultrasonic cleaning, rinsing and drying of the work being treated	Rinsing of components pre/post surface treatment and drying of the components.
AR 08		Laboratory testing	From receipt of materials to disposal of wastes linked to testing.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
AR 09		Mechanical treatment	Mechanical treatment steps including abrasive blasting, polishing and masking. From receipt of raw materials to despatch of pre-treated parts for surface treatment.
AR 10		Powder Coating	Powder coating of components associated with the listed activity. Paint usage < 20 tonnes /annum.
AR 11		Heat Treatment	The operation of two electric oven to carry out heat treatment of electroplated components for de-embrittlement / stress-relieve / de-gassing purposes.
AR 12		Coating removal using acids other than nitric acid	Receipt of raw materials to despatch of stripped parts for surface treatment of metals using acids other than nitric acid.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Sections 3 of the application document(s) provided in response to section 3a – technical standards , Part B3 and the B3 continuation sheet of the application form	Duly Made 11/04/18
Additional information	Not Duly Made Response	26/03/18
Response to Schedule 5 Notice dated 01/08/18	Accident Management Plan	24/10/18
Additional information	BAT Assessment.	05/11/18
Additional Information	Email stating that the operator will adopt the Sector Technical Guidance Note 2.07 - How to comply with your environmental permit, Additional guidance for: The Surface Treatment of Metals and Plastics by Electrolytic and Chemical Processes	31/01/19

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC 01	<p>Provide a report to the Environment Agency on establishing an appropriate environmental management system having regard to the Environment Agency web guidance Develop a management system: environmental permits (https://www.gov.uk/guidance/develop-a-management-system-environmental-permits) and sector guidance The Surface Treatment of Metals and Plastic by Electrolytic and Chemical Processes (EPR 2.07) (https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/297005/geho0209bpipe-e-e.pdf).</p> <p>The report shall include time-scales to implement such a system.</p>	31/05/19
IC 02	<p>Carry out a study of the containment necessary to prevent any release to the environment in the event of a major spillage or fire (including firewater run-off). Include the capacity of the effluent sump compared to the largest storage tanks, the doorways to the buildings to ensure the building is a contained system and the need to kerb the car park perimeter adjacent to the canal to prevent firewater runoff reaching the canal.</p> <p>The operator shall submit a proposal for the storage, assessment and discharge in a controlled manner of contaminated firewater in the event of an incident.</p> <p>The proposal shall ensure sufficient contained storage volume is available for temporary storage of firewater run-off.</p> <p>The proposal shall include but not be limited to:</p> <ul style="list-style-type: none"> • Final emergency procedures including sampling, assessment criteria and disposal procedures for handling such firewater, plus procedures for manhole closure in the event of a fire incident. • Emergency contained storage facilities for firewater with final storage volumes inside and external to main process building. <p>Identify any improvements required and provide an implementation plan to the Environment Agency. Once approved in writing and from the date stipulated by the Environment Agency, the report shall be implemented in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency.</p>	30/08/19
IC 03	<p>The Operator shall provide a written assessment of the permitted installation operation, infrastructure and performance in relation to point source emissions to air and sewer against the indicative BAT in Guidance Note 'The Surface Treatment of Metals and Plastics by Electrolytic and Chemical Processes (EPR 2.07)'. The assessment shall include a time bound action plan detailing operating procedure(s) and infrastructure improvements required to meet BAT or a justified equivalent. The assessment and action plan should consider all areas of plant operation.</p> <p>Once approved in writing and from the date stipulated by the Environment Agency, the report shall be implemented in accordance with the agreed timescales, subject to such amendments or additions as notified by the Environment Agency.</p>	30/08/19

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC 04	<p>The operator shall submit a written plan to the Environment Agency for approval that includes:</p> <ul style="list-style-type: none"> (a) proposals to undertake representative monitoring of the air discharged from all air emissions points referenced in Table S3.1 including the parameters to be monitored, frequencies of monitoring and methods to be used; (b) confirmation that a written report will be submitted to the Environment Agency for approval that includes: <ul style="list-style-type: none"> i) the results of an assessment of the impact of the emission to air from the site using the Environment Agency's 'H1 Environmental Risk Assessment' tool (or equivalent as agreed with the Environment Agency) based on the parameters monitored in (a) above; and ii) proposals for appropriate measures to mitigate the impact of the emissions where the assessment determines they are significant, including emission limits, monitoring and dates for implementation of individual measures; and iii) details of appropriate measures for the operation and maintenance of the abatement system to ensure that, where emission limits are proposed, they are met or, where emission limits are not required, emissions remain insignificant. <p>Once approved in writing and from the date stipulated by the Environment Agency, the operator shall carry out the monitoring in accordance with the plan and agreed timescales, subject to such amendments or additions as notified by the Environment Agency.</p>	28/02/20
IC 05	<p>The operator shall carry out a detailed noise survey. All measurements should be carried out according to BS 4142:2014. Determine the background noise levels and noise levels at sensitive locations. Identify the main sources of noise and assess whether the equipment is BAT with regard to noise minimisation. Provide a report with any recommendations for improvements to Environment Agency.</p>	28/02/20
IC 06	<p>Provide a revised report to the Environment Agency on establishing your basic energy efficiency measures as required by the web guidance "Energy efficiency standards for industrial plants to get environmental permits" (https://www.gov.uk/guidance/energy-efficiency-standards-for-industrial-plants-to-get-environmental-permits). The report shall include details of the improvements required to meet the above guidance.</p> <p>The report shall include time-scales to implement such a system.</p>	30/08/19

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Sodium hydroxide	--.
DS 93 Prosolve (CAS Numbers 67641, 67630)	--

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit) ^(Note 1)	Reference period	Monitoring frequency	Monitoring standard or method
A1 on site layout plan in Schedule 7	Extraction from plating processes	Hydrogen Chloride	10 mg/m ³	As determined by Improvement condition IC 04 or as otherwise agreed by the Environment Agency	Quarterly or as agreed with the Environment Agency and subsequently determined by Improvement condition IC 04	BS EN 15267-3 ^[Note2] or other as determined by Improvement condition IC 04 or as otherwise agreed by the Environment Agency
		Nickel and its compounds (as nickel)	2 mg/m ³			
A2 on site layout plan in Schedule 7		Oxides of nitrogen (total acid forming as NO ₂)	200 mg/m ³			
		Nickel and its compounds (as nickel)	2 mg/m ³			
A3 on site layout plan in Schedule 7		Hydrogen Chloride	10 mg/m ³			
		Oxides of sulphur (as SO ₂)	100 mg/m ³			
A4 on site layout plan in Schedule 7		Hydrogen Chloride	10 mg/m ³			
A5 on site layout plan in Schedule 7		Oxides of nitrogen (total acid forming as NO ₂)	200 mg/m ³			
		Nickel and its compounds (as nickel)	2 mg/m ³			
A6 on site layout plan in Schedule 7		Oxides of sulphur (as SO ₂)	100 mg/m ³			

Table S3.1 Point source emissions to air – emission limits and monitoring requirements							
Emission point ref. & location	Source	Parameter	Limit (including unit) ^(Note 1)	Reference period	Monitoring frequency	Monitoring standard or method	
A7 on site layout plan in Schedule 7		Oxides of nitrogen (total acid forming as NO ₂)	200 mg/m ³				
		Nickel and its compounds (as nickel)	2 mg/m ³				
A8 on site layout plan in Schedule 7		Oxides of nitrogen (total acid forming as NO ₂)	200 mg/m ³				
		Oxides of sulphur (as SO ₂)	100 mg/m ³				
A9 on site layout plan in Schedule 7		Oven	Particulates				50 mg/m ³
A11 on site layout plan in Schedule 7		Hood Internal Recycle	Particulate Matter				50 mg/m ³
A12(B) on site plan in Schedule 7		Blaster	Particulate Matter				50 mg/m ³
A13(S) on site layout plan in Schedule 7		Bright Dipping Scrubber - Hood	Particulate Matter			50 mg/m ³	
A14 (G) site layout plan in Schedule 7	Garage	VOCs	75 mg/m ³			BS EN 12619 or other as determined by Improvement condition IC 04 or as otherwise agreed by the Environment Agency	
Note 1 - Interim limits until IC 04 is completed or as otherwise agreed in writing by the Environment Agency.							
Note 2 - Certification to the MCERTS performance standards indicates compliance with BS EN 15267-3.							

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 ((S1) EPT1) on site layout plan in schedule 7 emission to United Utilities Leigh Sewage Treatment Works	Site effluent treatment plant.	Total daily volume of discharge	17 m ³ /day	24-hour total	Continuous	MCERTS self-monitoring of effluent flow scheme

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Process Scrubber	pH	As agreed in writing with the Environment Agency		
Effluent Treatment Facility	pH			

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1 to A8 and A13(S) A11, A12(B) and A13(S) A14(G)	Quarterly for the first year or as agreed in writing with the Environment Agency then every 12 months	01/05, 01/08, 01/11, 01/02 1 January
Emissions to water Parameters as required by condition 3.5.1	S1	Every 6 months	1 January, 1 July

Table S4.2: Annual production/treatment	
Parameter	Units
N/A	--

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	Tonnes or m ³
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Solvent used	Annually	Kg
Hazardous waste	Annually	Tonnes or kg
Non-hazardous waste		
Process monitoring	Annually	As required.

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency.	01/03/19
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency.	01/03/19
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency.	01/03/19
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency.	01/03/19

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency.	01/03/19
Waste	As agreed in writing by the Environment Agency	--

Schedule 5 – Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

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

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

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

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

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

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

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

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

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

“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 or background concentration limit.

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

“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 (as amended).

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

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

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

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

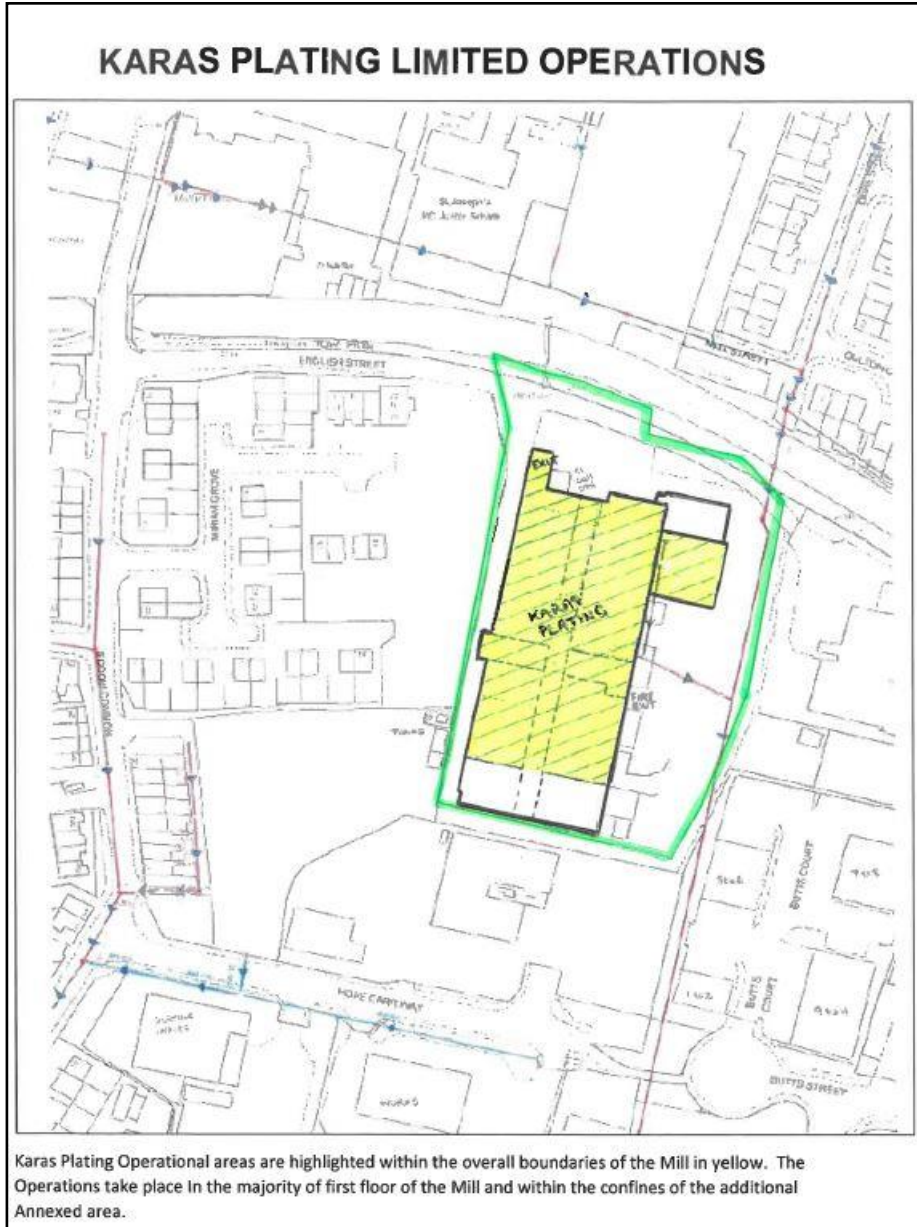
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

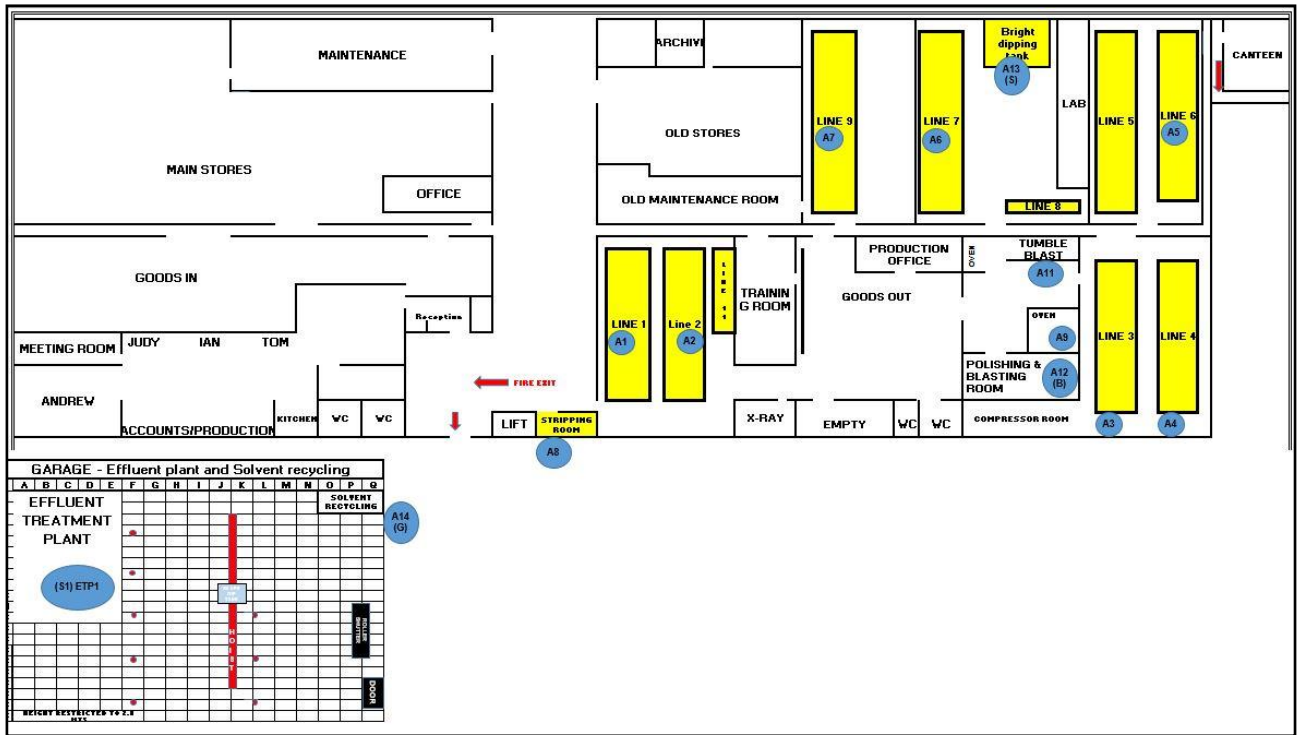
- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration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

Schedule 7 – Site plan



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Site Layout Plan
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