Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

CELSA Manufacturing (UK) Limited

Tremorfa Melt Shop
Tremorfa Works
Seawall Road
Cardiff
CF24 5TH

Permit number

EPR/TP3639BH

Tremorfa Melt Shop
Permit number EPR/TP3639BH

Introductory note

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

The main features of the permit are as follows.

The Tremorfa Melt Shop consists of two regulated facilities comprising the Chapter 2, S2.1, Part A(1)(b)(i) installation and waste operations.

The Chapter 2, S2.1, Part A(1)(b)(i) installation produces steel billet from scrap using an electric arc furnace and continuous casting. The plant was built in 2006 with a design capacity of approximately 1.3 million tonnes of finished billet per year (27,000 tonnes per week). The steel plant can operate 24 hours per day, seven days per week, for up to 52 weeks per year with planned maintenance occurring as and when required.

A Chapter 5 S5.4 Part A(1) (b) (iii) (treatment of slags and ashes) waste operation is permitted for the storage and processing of by-products from the steel plant. The permitted operations comprise a waste transfer station, mill scale treatment area, and areas for the weathering and treatment of Electric Arc Furnace (EAF) slag, including crushing and screening. EAF slag is a by-product of the process and when processed can be used as a mineral aggregate. A Chapter 3, S3.5 Part B (e) activity – coating road stone with tar or bitumen is permitted as a directly associated activity to the S2.1 installation, and uses processed steel slag for the production of asphalt.

The permit also regulates an integrated scrap metal recycling centre for further scrap processing. There are also other Directly Associated Activities (DAA's) that the permit regulates.

The permit also regulates waste operations from the Metal Recycling Site (MRS) following previous consolidation of the waste permit EPR/DP3699FM on the Rover Way site.

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

Status log of the permit		
Description	**Date**	**Comments**
Application TP3639BH	Received 15/10/04	
Request for additional information	22/12/04	
Additional information received	03/02/05	
Request to extend determination	18/03/05	
Request accepted	22/03/05	
Request to extend determination	29/04/05	
Request accepted	03/05/05	
Permit determined TP3639BH	11/05/05	
Application EPR/TP3639BH/V002 (variation and consolidation)	Duly made 21/12/11	Application to vary, consolidate and update the permit to modern conditions.
Request for additional information	17/02/12	Trade effluent consent for emission point S1 and updated site plan showing emission point locations.
EA request to extend determination date to 20/04/12	20/03/12	
Extension request agreed	22/03/12	
Additional information received	23/02/12 & 10/04/12	
Variation determined Consolidated Permit: EPR/TP3639BH	24/04/12	Varied and consolidated permit issued in modern condition format. The following permits have been consolidated: EPR/TP3639BH, EPR/BU2098IP and EPR/WP3699FQ
Regulation 60(1) Notice of request for more information	03/09/13	
Regulation 60(1) response received	30/04/14	Implementations of BAT conclusions under IED
Natural Resources Wales Iron and Steel Sector Review 2014 Permit EPR/TP3639BH Variation issued EPR/TP3639BH/V003	17/11/15	Varied and consolidated permit issued in modern IED condition format
Application PAN-000449	Duly Made 23/06/2016	Application to vary permit to add waste codes.
Variation determined EPR/TP3639BH/V004	20/07/2016	Varied permit issued.
Application PAN-001189	Duly Made	Application to increase millscale storage

	04/01/2017	capacity.
Variation determined EPR/TP3639BH/V005	24/01/2017	Varied permit issued.
Application for variation PAN-001610	Duly Made 08/06/2017	Application to add mechanical shearing to permitted activities as part of scrap metal pre-treatment.
Variation determined EPR/TP3639BH/V006	20/06/2017	Varied permit issued.
Application for variation PAN-005161	Duly Made 18/06/2019	Application to increase the shearing scrap metal limit to 5000 tonnes per month.
Variation determined EPR/TP3639BH/V007	09/07/2019	Varied permit issued.
Application for variation EPR/TP3639BH/V008 (PAN-005485)	Duly Made 09/10/2019	Application to consolidate waste permit EPR/DP3699FM, add integrated recycling centre, remove Carbon Monoxide limit and update/increase permit boundary.
Schedule 5 Request for additional information	18/10/2019	Additional information required on FPMP, dust and noise assessment.
Schedule 5 additional information received	08/11/2019	
Schedule 5 Request for additional information	19/11/2019	Additional information required on FPMP and dust.
Schedule 5 additional information received	29/11/2019	
Application for variation (PAN-006067)	Not Duly Made 02/12/2019	Application to add an asphalt plant and slag processing returned not duly made.
Variation application EPR/TP3639BH/V009 (PAN-008611)	Duly Made 06/01/2020	Application to add asphalt plant and slag processing
Variation determined EPR/TP3639BH/V008	07/02/2020	Varied permit issued.
Schedule 5 Request for additional information	24/02/2020	Additional information required on noise assessment, air quality assessment, dust assessment, management system arrangements and other clarifications to application.
Schedule 5 additional information received	12/03/2020 13/03/2020 16/03/2020	Including revised Noise Impact Assessment, Air Emissions Risk Assessment, and responses to other questions.
Variation determined EPR/TP3639BH/V009	05/05/2020	Varied permit issued.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number
EPR/TP3639BH

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/TP3639BH/V009 authorising,

CELSA Manufacturing (UK) Limited ("the operator"),

whose registered office is

Building 58
East Moors Road
Cardiff
CF24 5NN

company registration number **0**4577881

to operate an installation and waste operation at

Tremorfa Melt Shop
Tremorfa Works
Seawall Road
Cardiff
CF24 5TH

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

Name	Date
Holly Noble	**05/05/2020**

Authorised on behalf of Natural Resources Wales

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 Natural Resources Wales].

1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1, A1 to A9. 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 For the following activities referenced in schedule 1, table S1.1, A1 to A9. The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

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

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

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

2 Operations

2.1 Permitted activities

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

2.1.2 For the following activities referenced in schedule 1, table S1.1 (A4, A10, A11 and A12) 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 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.

(b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales 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 Natural Resources Wales.

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

2.3.3 Waste shall only be accepted if:

(a) it is of a type and quantity listed in schedule 2 tables S2.2, S2.3, S2.4 and S2.5; and

(b) it conforms to the description in the documentation supplied by the producer and holder.

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.

2.3.6 The operator shall obtain written agreement from Natural Resources Wales prior to any period of use of the mobile crushing and screening plant.

2.3.7 The operator shall obtain written agreement from Natural Resources Wales prior to any lancing of steel pieces outside the lancing booth.

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 Natural Resources Wales.

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

2.5 Technical requirements

Vehicle depollution and dismantling

2.5.1 The storage (including temporary storage) and treatment of waste motor vehicles shall meet the requirements of article 6(1) of the End-of-Life Vehicles Directive.

WEEE treatment

2.5.2 The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex VIII of the WEEE Directive.

2.5.3 WEEE shall be treated using best available treatment, recovery and recycling techniques (BATRRT).

2.5.4 As a minimum, the substances, preparations and components specified in table 2.4 shall be removed from any separately collected WEEE.

Table 2.4 Substances, preparations and components to be removed from separately collected WEEE

- Capacitors containing Polychlorinated biphenyls (PCB)
- Mercury-containing components, such as switches or backlighting lamps
- Batteries
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres
- Toner cartridges, liquid and pasty, as well as colour toner
- Plastic containing brominated flame retardants
- Asbestos waste and components which contain asbestos
- Cathode ray tubes
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC), or hydrocarbons (HC)
- Gas discharge lamps
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps
- External electric cables
- Components containing refractory ceramic fibres
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and the Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation
- Electrolytic capacitors containing “substances of concern” (height > 25mm, diameter > 25 mm or proportionately similar volume)

2.5.5 All fluids contained within any WEEE shall be removed prior to further treatment.

2.5.6 Separately collected components of WEEE specified in table 2.5 shall be treated in accordance with the methods specified in that table.

Table 2.5 Specified Treatment Methods for separately collected components of WEEE	
Component	**Specified Treatment**
Cathode ray tubes	The fluorescent coating shall be removed.
Gas discharge lamps	The mercury shall be removed.

2.5.7 Equipment shall be provided to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

Hazardous waste storage and treatment

2.5.8 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.

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 Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales 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 Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales 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 Natural Resources Wales.

3.5 Pests

3.5.1 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.

3.5.2 The operator shall:

(a) if notified by Natural Resources Wales, submit to Natural Resources Wales for approval within the period specified, a pests management plan which identifies and minimises risks of pollution, hazard or annoyance from pests;

(b) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by Natural resources Wales.

3.6 Fire

3.6.1 The operator shall manage and operate the activities in accordance with a written fire prevention plan using the current, relevant fire prevention and mitigation plan guidance.

3.6.2 The operator shall:

(a) if notified by Natural Resources Wales that the activities could cause a fire risk, submit to Natural Resources Wales a fire prevention and mitigation plan which identifies and minimises the risks of fire;

(b) Operate the activity in accordance with the fire prevention and mitigation plan, from the date of submission, unless otherwise agreed in writing by Natural Resources Wales.

3.7 Monitoring

3.7.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1, S3.2 and S3.3;

(b) ambient air monitoring specified in table S3.4.

(c) process monitoring specified in table S3.5

3.7.2 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.

3.7.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.7.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.

3.7.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by Natural Resources Wales.

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 Natural Resources Wales, 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 Natural Resources Wales.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 For the following activities referenced in schedule 1, table S1.1, A1 to A11. A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) 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; and

(b) 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 Natural Resources Wales, 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 Natural Resources Wales, 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 For the following activities referenced in schedule 1, table S1.1, A1 to A9. Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales 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.

4.2.6 For the following activities referenced in schedule 1, table S1.1, A10, A11, A12. Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales 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 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform Natural Resources Wales,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) in the event of a breach of any permit condition the operator must immediately—

(i) inform Natural Resources Wales, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), [or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit,] shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

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

(a) Natural Resources Wales 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 Natural Resources Wales 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, Natural Resources Wales 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**
A1	Producing steel using electric arc furnaces with a designed holding capacity of 7 tonnes or more [Schedule 1 Activity – Chapter 2, Section 2.1, Part A(1)(b)(i)	The operation of an electric arc furnace, including ladle furnace; continuous caster; fume extraction plant; baghouse dust storage; oxygen, argon and nitrogen storage.	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products. Waste types as specified in Table S2.2.
Directly Associated Activity			
A2	Section 5.4 Part A(1) (b) (iii) Recovery or a mix of recovery and disposal of non-hazardous waste in an installation with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC - treatment of slags and ashes.	Slag collection and transfer from the activity A1 to waste operation. Cooling and breaking of hot metal residues by drop balling and oxygen lancing prior to return to the electric arc furnace. Processing of weathered slag using crushing and screening equipment solely for the purpose of feeding the asphalt plant. **R4**: Recycling/reclamation of metals and metal compounds **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)	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products. The crushing and screening equipment shall be operated at the location indicated in Schedule 7. It shall not be used except between the hours 07:00-17:00 daily. Annual capacity 300,000 tonnes throughput. Storage of the crushed and screened slag specified below at any one time shall not exceed the limits given: >3mm, 4000 tonnes ≤ 3mm, 1,200 tonnes

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**
A3	Section 3.5 Part B (e) Coating road stone with tar or bitumen.	Asphalt plant used for the manufacture of coated roadstone using processed slag as the main aggregate.	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products. Product capacity 320 tonnes per hour. The asphalt plant shall not be used except between the hours 06:00-17:00 daily. No third party Reclaimed Asphalt Pavement / Road Asphalt Planings will be used in the process. No processed ≤ 3mm will be stored outside of the designated, impermeable surfaced and covered storage bay.
A4	Scrap handling and storage	Scrap unloading, sorting and storage. Loading into baskets and transfer to the furnaces. **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) **R4**: Recycling / reclamation of metals and metal compounds	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products. Storage of waste scrap metal in dedicated scrap storage areas prior to submission to the scheduled activity. Storage shall be limited to: 200,000 tonnes for waste type 20 01 40 1,000 tonnes for waste type 19 12 03 at any one time. Treatment shall be limited to: - sorting of waste scrap prior to submission to the scheduled activity. -shearing of up to 5000 tonnes of scrap metal per month prior to submission to the scheduled activity. Waste types as listed in table S2.2
A5	Other raw material handling	Unloading, storage and transfer to the furnaces.	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products.

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**
A6	Billet Storage	Storage in billet warehouse	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products.
A7	Water Treatment Systems	Closed circuit water cooling systems and open circuit water treatment plant (removing scale).	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products.
A8	Scale handling	Dewatering of scale removed in water treatment.	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products.

Directly Associated Activity (Continued)			
A9	Electric Arc Furnace Dust storage and handling	Storage of EAF dust collected from the EAF dust abatement plant prior to transportation off site for recovery	The limits of specified and associated activities collectively comprise all activities carried out in the installation between the receipt of raw materials and the supply of finished products. Storage shall be limited to: - 1,000 tonnes for waste type 10 02 07* at any one time.
		Description of activities for waste operations	**Limits of activities**
A10	Waste transfer station with treatment	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) R3: Recycling/ reclamation of organic substances which are not used as solvents R4: Recycling/ reclamation of metals and metal compounds R5: Recycling/ reclamation of other inorganic compounds	All non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage. All inert wastes must be stored and treated on hardstanding or an impermeable surface with sealed drainage. Treatment operations shall be limited to: 1. manual sorting / separation 2. mechanical sorting / screening /separation 3. shredding 4. compaction 5. crushing of slag using dedicated plant 6. weathering of slag of waste into different components for recovery. Storage of the waste types specified below at any one time shall not exceed the limits given: 20 03 01 – 150 tonnes 17 01 07 – 1,000 tonnes 10 02 10 – 6,000 tonnes 10 02 99 – 3,000 tonnes 10 02 01 – 300,000 tonnes 16 11 02 – 1,000 tonnes Waste types as specified in Table S2.3. Notwithstanding the waste types permitted in table S2.3 wastes which have any of the following characteristics shall not be accepted; - wastes consisting of or contaminated with Japanese Knotweed - wastes consisting of or contaminated

			with asbestos - consisting solely or mainly of dusts, powders, or loose fibres - hazardous wastes - wastes in the form of liquid or sludge - liquefied petroleum gas cylinders - any putrescible wastes - healthcare or clinical wastes
A11	Integrated scrap metal recycling centre (incorporating oversize material processing, material processing via vibro-flume and material processing via Eddy Current Separation (ECS)	**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) **R3**: Recycling/ reclamation of organic substances which are not used as solvents **R4:** Recycling/ reclamation of metals and metal compounds **R5**: Recycling/ reclamation of other inorganic compounds	All non-hazardous waste must be stored and treated on a hardstanding or an impermeable surface with sealed drainage. The vibroflume and associated wash water treatment system shall be located on an impermeable surface with sealed drainage with engineered bund(s) with the capacity to contain 110% of the largest volume vessel and 25% of the combined volume of all the vessels in the bund in case of spillage. The containment area shall be regularly inspected. Treatment operations shall be limited to manual and/or mechanical: -sorting and/or separation of permitted waste for the purpose of recovery Waste types as specified in Table S2.4

A12	Metal recycling site (mixed MRS) including end of life vehicle de-pollution	**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) **R3**: Recycling/ reclamation of organic substances which are not used as solvents **R4**: Recycling/ reclamation of metals and metal compounds **R5**: Recycling/ reclamation of other inorganic compounds	All hazardous and non-hazardous waste must be stored and treated on an impermeable surface with sealed drainage unless otherwise specified. The maximum quantity of hazardous waste that can be stored at the site in total for recovery or disposal, (excluding end of life vehicles and/or waste electrical and electronic equipment stored pending manual dismantling, repair or refurbishment), shall not exceed 50 tonnes at any one time. The maximum quantity of hazardous waste treated for disposal or recovery, (excluding manual dismantling of end of life vehicles and/or waste electrical and electronic equipment) shall not exceed 10 tonnes per day. The maximum quantity of metal waste (including waste electrical and electronic equipment and end of life vehicles and their components) that can be treated in shredders for recovery or a mix of recovery and disposal in total at the site shall not exceed 75 tonnes per day. There shall be no treatment of: - WEEE containing ozone depleting substances - waste batteries and/or accumulators other than bulking up for onward transfer. Metal recycling: Treatment operations shall be limited to manual and/or mechanical: - sorting and/or separation - shredding - bulking up for onwards transfer of permitted waste for the purpose of recovery. **WEEE recycling:** Treatment consisting only of sorting, dismantling, separation, shredding, screening, grading, shearing, baling,

compacting, crushing, granulation, and cutting of different components for recovery.

1. Treatment

a) all treatment shall be carried out on an impermeable surface with sealed drainage system with provision of spillage collection facilities and, where appropriate, decanters and cleanser degreasers;

b) Treatment of WEEE shall be carried out within a building provided with a weatherproof covering.

2. Storage

a) WEEE, disassembled spare parts, components or residues shall be stored on an impermeable surface with sealed drainage system with provision of spillage collection facilities and, where appropriate, decanters and cleanser degreasers;

b) WEEE, disassembled spare parts, components or residues shall be stored in areas provided with a weatherproof covering where appropriate or in containers providing a weatherproof covering where appropriate;

c) disassembled spare parts containing liquids shall be stored in appropriate containers;

d) batteries, PCBs/PCTs containing capacitors and other hazardous wastes must be stored in dedicated, labelled and appropriate containers;

e) uncontaminated ferrous metal wastes or alloys and uncontaminated non-ferrous metal wastes shall be stored on hard standing or an impermeable surface;

f) all other wastes shall be stored on an impermeable surface with sealed drainage system.

3. Buildings, covered areas or containers shall meet the following requirements:

a) buildings, covered areas or containers shall be designed, constructed and maintained to prevent ingress of rain and surface water;

b) rain and uncontaminated surface water shall be kept separate from contaminated water and other liquids;

c) containers shall be stored on an impermeable surface with sealed drainage system.

ELV recycling:

Treatment consisting only of depollution of waste motor vehicles and sorting, separation, shredding of waste into different components for recovery.

1. All End-of-Life Vehicles must be depolluted inside a building.
2. Uncontaminated plastic and glass arising from the treatment of end-of-life vehicles, uncontaminated ferrous metal wastes or alloys and uncontaminated non-ferrous metal wastes shall be stored on hard standing or an impermeable surface with sealed drainage system.
3. Lead acid batteries shall be stored in containers with an impermeable, acid resistant base and a cover to prevent ingress of water.
4. Other batteries and accumulators from ELVs shall be stored under weatherproof covering or in suitable containers.
5. Whole undepolluted and undamaged vehicles shall be stored on an impermeable pavement with a sealed drainage system
6. All other wastes shall be stored on an impermeable surface with sealed drainage system.
7. Storage operations are to be carried out avoiding damage to components containing fluids or to recoverable components or spare parts.
8. Spillage collection facilities shall be provided and used to deal with any spillage of vehicle fluids.
9. All wastes shall be treated on an impermeable surface with sealed drainage system.

Waste types as specified in Table S2.5.

	Discharge to soakaway via a class one by-pass interceptor in series with a class one full retention interceptor	Drainage consisting solely of: - clean, rainfall dependant drainage from areas of the site not used in connection with the storage and/or treatment of waste - run-off via a class one by-pass interceptor in series with a class one full retention interceptor from the impermeable surface from external areas of the site used to store and/or treat waste. No visible oil or grease shall be present in the discharge. There shall be no discharge from the buildings on site used to store and/or treat waste

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application TP3639BH	The response given to questions 2.1 and 2.2 given in pages 27-49 of sections 2.3 and 2.4 of the application.	15/10/04
Schedule 4 Notice (Application TP3639BH)	Responses to questions S1.3 Q28 S2.1 Q3 S2.2 Q1 S2.3 Q3, Q13	03/02/05
Application EPR/TP3639BH/V002	The response to Form C2, question 5a given on page 8 of main application document 11-1079 – confirming that the boundary of the original scrap storage area is being extended to reflect current usage patterns.	25/10/11
Application EPR/TP3639BH/V002 Further Information Required for Duly Making	The response to question 2 – confirming that scrap metal storage and handling in the area of the former old melt shop permit (EPR/BU2098IP) will take place within the Old Melt Shop building for noise attenuation purposes. The response to question 3 – outlining the control measures used to prevent pollution from the scrap metal storage area within the Old Melt Shop building. The response to question 6 – detailing control measures in place to minimise the environmental impact of the drop ball process. The response to question 7 – detailing the Lancing booth specification and abatement equipment. "Downflo® II Dust Collectors" – specification of the dust collectors serving the Lancing Booth Harsco Metals Work Instruction: "Lancing of Skulls from within a Lancing Booth"	21/12/11
Information received in support of Natural Resources Wales Iron and Steel Sector Permit Review 2014	All parts of operator response to Regulation 60 (1) notice	03/09/13
Application EPR/TP3639BH/V006	The response to Form C2, question 2b, table 1 of the application.	26/05/2017
Application EPR/TP3639BH/V007	All parts of 018-1620 Celsa Cardiff EPR Shearing Limit Increase REV000	02/04/2019
Application EPR/TP3639BH/V008	Forms C2 and C3 all parts. Scrap Processing centre Noise and vibration Management Plan (relevant for A11) – all parts.	15/05/2019
Technical Guidance Document: 'How to comply with your environmental permit'	All relevant sections	N/A
Sector Guidance Note IPPC S5.06: Guidance for the Recovery and Disposal of Hazardous and Non Hazardous Waste	All relevant sections	N/A

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Fire prevention and mitigation plan guidance - Waste	All relevant sections	N/A
Application EPR/TP3639BH/V008 Fire prevention and mitigation plan	All relevant sections	In line with Improvement Condition 4
Additional information received EPR/TP3639BH/V008 Main Installation Report REV01	All parts	18/12/2019
Additional information received EPR/TP3639BH/V008 Response to Schedule 5	Dust Management Plan and Noise Assessment [integrated scrap metal recycling centre]	08/11/2019
Application EPR/TP3639BH/V009	Forms C2 and C3 all parts and supporting information submitted.	06/01/2020
Additional information received EPR/TP3639BH/V008 Fire prevention and mitigation plan REV04-	All parts	28/01/2020
Additional information received EPR/TP3639BH/V008	Site surfacing details – impermeable surfaces and sealed drainage.	28/01/2020
Additional information received EPR/TP3639BH/V009 Response to Schedule 5	018-1666 Asphalt Variation Main Installation Report REV02 Dust Management Plans [Celsa ECP47, Celsa ECP52, Celsa ECP53, Harsco DMP v2], Cumulative Noise Impact Assessment, revised Air Emissions Risk Assessment v4	12/03/2020 13/03/2020 16/03/2020

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC1	The Operator shall review the most appropriate method(s) for the abatement of fume releases from casting operations such that the visible release of casting fume through the caster / billet bay roof vents is minimised. The feasibility of implementing such abatement and / or techniques shall be assessed in detail to include engineering, timescales and costs. A report shall be submitted to the Environment Agency that describes the appropriate method(s), together with an implementation and commissioning schedule.	Completed
IC2	The Operator shall complete any agreed improvements to abatement and / or techniques to the caster / billet bay, to an agreed timescale, such that fugitive releases to air from the casting operation are minimised effectively.	Completed
IC3	The operator shall submit, for approval by Natural Resources Wales, a report setting out progress to achieving the BAT Conclusion AELs where BAT is currently not achieved, but will be achieved by March 2016. The report shall include, but not be limited to, the following: 1) Current performance against the BAT Conclusion AEL. 2) Methodology for reaching the AELs. 3) Associated targets / timelines for reaching compliance by 8th March 2016. The report shall address the following BAT Conclusions: 10, 16 and 89.	Completed
IC4	The operator shall submit a written Fire prevention and mitigation plan (for the activities A2, A4, A10, A12) to Natural Resources Wales. The Fire prevention and mitigation plan must be produced in line with the standards set out in Fire prevention and mitigation plan guidance – Waste.	07/05/2020 or otherwise agreed in writing with Natural Resources Wales
IC5	The Operator shall submit a written report to Natural Resources Wales for approval detailing the intended monitoring of emissions of PM_{10} and/or total suspended particulates (TSP) from the activities newly permitted by variation V009. The report shall include: • Methods of PM_{10} and/or dust emission monitoring. •. Confirmation of location of monitoring devices. • A methodology to demonstrate that abatement techniques have been effective at minimising fugitive emissions escaping the site boundary. • Action and review levels with an overriding aim to ensure that PM_{10} and TSP emissions from the facility are eliminated or minimised. • Planned initial duration of monitoring and definition of the conditions under which sufficient information will have been collected, for monitoring to be reduced or ceased.	Within one month of issue of variation V009 or as otherwise agreed in writing by Natural Resources Wales.

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC6	The Operator shall submit written reports to Natural Resources Wales for approval detailing the monitoring of emissions of PM_{10} and/or TSP, as referred to in IC5. The reports shall give the results of PM_{10} and/or TSP monitoring, provide interpretation as to their meaning, and propose any modifications to the monitoring (including suspension / termination) or dust management techniques which may be necessary.	First report within two months of issue of approval of IC5 or as otherwise agreed in writing by Natural Resources Wales. Second and subsequent reports every two months thereafter until it is agreed in writing with Natural Resources Wales that monitoring or reporting may be modified or ended.
IC7	The Operator shall submit a written report to Natural Resources Wales for approval providing details of the fixed dust suppression system for dust control within the asphalt plant. The report shall include: • Identification of sources to be treated. • Technical specification of the suppression system and the area covered. • Performance standards/guarantees. • A proposed timetable for installation.	Within 3 months of issue of variation V009 or as otherwise agreed in writing by Natural Resources Wales.

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IC8	Following completion of the asphalt plant and integrated scrap metal recycling centre, the Operator shall undertake noise monitoring at the nearest sensitive receptors. This shall include: ·• A full noise monitoring survey and assessment meeting the BS4142:2014 standard including details of local conditions e.g. meteorological conditions (wind direction). • 1/3rd octave and narrow band (FFT) measurements to identify any tonal elements or low frequency noise. ·• Reference to the World Health Organisation guidelines for community noise. • Reference to Noise Action Plan for Wales 2018-2023. Upon completion of the work, a written report shall be submitted to Natural Resources Wales. If rating levels likely to cause complaints or disturbance at sensitive receptors are detected as a result of the installation operation, the report shall include an assessment of the most suitable abatement techniques, an estimate of the cost and a proposed timetable for their installation.	Within 6 months of issue of variation V009, or as otherwise agreed in writing by Natural Resources Wales

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 use in the Melt Shop Activity	
Maximum quantity	No annual maximum throughput subject to storage limits for specified waste in Table S1.1
Waste code	**Description**
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10	Waste metal
10	**WASTES FROM THERMAL PROCESSES**
10 02	Waste from the iron and steel industry
10 02 99	Wastes not otherwise specified (Downstream scrap)
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**WASTES FROMSHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT of metals and plastics**
12 01 01	ferrous metal filings and turnings
12 01 02	Ferrous metal dust and particles
15	**WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**
15 01	**Packaging (including separately collected municipal packaging waste)**
15 01 04	Metallic packaging
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 01	**End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 17	Ferrous metal including tyre wire
16 01 22	Components not otherwise specified (comprising only of de-polluting metallic vehicle parts, components and engines)
16 02	**Wastes from electrical and electronic equipment**
16 02 14	Discarded equipment other than those mentioned in 16 02 09 to 16 02 13 (ferrous and non-ferrous metal waste only)
16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15 (ferrous and non-ferrous metal waste only)
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 04	**Metals (including their alloys)**
17 04 01	Copper, bronze, brass
17 04 02	Aluminum
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 11	Cables other than those mentioned in 17 04 10
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**

19 12	**Wastes from the mechanical treatment of waste (for example, sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 02	Ferrous metal
19 12 03	Non-ferrous metal
19 12 04	Plastic and rubber
19 12 07	Wood and other than mentioned in 19 12 06
19 12 09	Minerals (for example sand and stones)
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	Separately collected fractions (except 15 01)
20 01 40	Metals

Table S2.3 Permitted waste types and quantities for Waste Transfer Station and Treatment	
Maximum quantity	The total quantity of waste accepted at the site shall be less than 450,000 tonnes a year subject to storage limits for specified waste in Table S1.1.
Waste code	**Description**
10	**WASTES FROM THERMAL PROCESSES**
10 02	Wastes from the iron and steel industry
10 02 01	Wastes from the processing of slag
10 02 10	Millscales
10 02 99	Wastes not otherwise specified
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 11	Waste linings and refractories
16 11 02	Carbon-based linings and refractories from metallurgical processes other than those mentioned in 16 11 01.
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 01	Concrete, bricks, tiles and ceramic
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 03	Other municipal wastes
20 03 01	Mixed municipal waste

Table S2.4 Permitted waste types and quantities for the Integrated Scrap Metal Recycling Facility	
Maximum quantity	The total quantity of waste accepted at the site shall be no more than 36,000 tonnes a year
Waste code	**Description**
19	**WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE**
19 12	**Wastes from the mechanical treatment of waste (for example, sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 02	Ferrous metal
19 12 03	Non-ferrous metal
19 12 04	Plastic and rubber
19 12 07	Wood and other than mentioned in 19 12 06
19 12 09	Minerals (for example sand and stones)
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

Table S2.5 Permitted waste types and quantities for metal recycling site (mixed MRS)	
Maximum quantity	The maximum quantity for waste to be accepted on site shall not exceed 250,000 tonnes per year subject to storage limits for specified waste in Table S1.1
Exclusions	Notwithstanding the waste types set out in this table, wastes having any of the following characteristics shall not be accepted: • consisting solely or mainly of dusts, powders or loose fibres • sludges
Waste code	**Description**
02	**WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**
02 01	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10	Waste metal
12	**WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS**
12 01	**WASTES FROMSHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT of metals and plastics**
12 01 01	ferrous metal filings and turnings
12 01 03	Non ferrous metal filings and turnings
15	**WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED**
15 01	**Packaging (including separately collected municipal packaging waste)**
15 01 04	Metallic packaging
16	**WASTES NOT OTHERWISE SPECIFIED IN THE LIST**
16 01	**End-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)**
16 01 03	End-of-life tyres
16 01 04*	End-of-life vehicles
16 01 06	End-of-life vehicles, containing neither liquids nor other hazardous components
16 01 17	Ferrous metal including tyre wire

16 01 18	Non-ferrous metal
16 01 21*	Hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14
16 01 22	Components not otherwise specified (comprising only of de-polluting metallic vehicle parts, components and engines)
16 02	**Wastes from electrical and electronic equipment**
16 02 11*	Discarded equipment containing chloroflurocarbons HCFC, HFC
16 02 14	Discarded equipment other than those mentioned in 16 02 09 to 16 02 13 (ferrous and non-ferrous metal waste only)
16 02 15*	Hazardous components removed from discarded equipment
16 02 16	Components removed from discarded equipment other than those mentioned in 16 02 15 (ferrous and non-ferrous metal waste only)
16 06	**Batteries and accumulators**
16 06 01*	Lead batteries
16 08	**Spent catalysts**
16 08 01	Spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
17	**CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
17 04	**Metals (including their alloys)**
17 04 01	Copper, bronze, brass
17 04 02	Aluminum
17 04 03	Lead
17 04 04	Zinc
17 04 05	Iron and steel
17 04 06	Tin
17 04 07	Mixed metals
17 04 09*	Metal waste contaminated with dangerous substances
17 04 10*	Cables containing oil, coal tar and other dangerous substances
17 04 11	Cables other than those mentioned in 17 04 10
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 02	Ferrous materials removed from bottom ash
19 10	**Wastes from shredding of metal-containing wastes**
19 10 01	Iron and steel waste
19 10 02	Non-ferrous waste
19 10 04	Fluff light fraction and dust other than those mentioned in 19 10 03
19 12	**Wastes from the mechanical treatment of waste (for example, sorting, crushing, compacting, pelletising) not otherwise specified**
19 12 02	Ferrous metal
19 12 03	Non-ferrous metal
20	**MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS**
20 01	**Separately collected fractions (except 15 01)**
20 01 21*	Fluorescent tubes and other mercury-containing waste
20 01 23*	Discarded equipment containing chlorofluorocarbons

20 01 33*	Batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 35*	Discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components
20 01 36	Discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 40	Metals

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on Site Plan in Schedule 7]	Furnace fume extraction plant stack	Particulates (2)	5 mg/m^3	Daily average	Continuous	BS ISO 10155
		Particulates (1)	5 mg/m^3		Annual	BS EN 13284-1
		Carbon Monoxide (2) (3)	No limit set	Hourly average	Annual	BS EN 15058
		Oxides of Nitrogen (as NO_x (1)	25 mg/m^3		Annual	BS EN 14792
		Sulphur Dioxide	25 mg/m^3	15 minute average	Annual	BS EN 14791
		PCDD/F	0.1 ng/m^3	6-8 hours random sampling during steady-state conditions	Annual	BS EN 1948:1-3
		VOC (1)	20 mg/m^3		Annual	BS EN 12619
		Metals (4)	No limit set		Annual	BS EN 14385
		Mercury	0.05 mg/m^3	Spot samples for at least four hours	Annual	BS EN 13211
		PAH (1)	No Limit Set		Annual	ISO 11338:1-2
		PCB (1)	No Limit Set		Annual	BS EN 1948:4
A2 [Point A2 on Site Plan in Schedule 7]	Materials handling extraction plant stack	Particulates (1)	10 mg/m^3		Annual	BS EN 13284-1
A3 [Point A3 on Site Plan in Schedule 7]	Water Cooling Towers	No Parameters set	No limit set	-	-	-
A4 [Point A4 on Site Plan in Schedule 7]	Lancing Fume Booth	Particulate Matter	Ringelmann Shade 1	Instantaneous	Daily	BS2742
A5 [Point A5 on Site Plan in Schedule 7]	Asphalt plant stack	Particulates (1, 5)	20 mg/m^3		Annual	BS EN 13284-1
		Oxides of nitrogen (NO and NO_2 expressed as NOx) (1,5)	12 mg/m^3	Hourly average	Annual	BS EN 14792
A6 – A10 [points A6 – A10 on site plan in Schedule 7]	Crushing and screening equipment exhausts (permanently sited moveable plant	No parameters set	No limit set	-	-	-

Notes:

1. Refers to any representative manual spot sample

2. The averaging period shall only include those hours during which the plant is in operation including start-up and shut-down.

3. For continuous monitoring the release limit is complied with if 95% of the hourly average readings for each rolling 24 hours do not exceed the emission limit value given in Table S3.1 and the peak hourly average does not exceed 1.5 times the limit value.
4. Metals means elements and compounds expressed as the metal of: Ni, As, Cd, Cr, Cu, Pb, Fe, Zn.
5. Concentration reported at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for oxygen or water vapour content.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
Rainwater Soakaway on plan 2 in schedule 7	Uncontaminated surface water from integrated scrap metal recycling centre rainwater harvesting system.	No parameters set	No limit set	-	-	-
Discharge to soakaway on plan 3 in schedule 7. 15 – Sampling Point and Discharge Consented Point 1.	surface run off from the treatment and storage areas within the licensed areas of ~~A11~~ A12. Discharge via a class one by-pass interceptor in series with a class one full retention interceptor.	pH	No limit set	Spot Sample	Every six months	BS ISO 10523
		Electrical conductivity	No limit set		Every six months	BS EN 27888 ISO 7888
		Biological Oxygen Demand	No limit set		Every six months	BS EN 1899
		Oxygen Levels	No limit set		Every six months	To be agreed in writing with NRW
		Suspended Solids	No limit set		Every six months	BS EN 872 or other method approved by NRW
		Chemical Oxygen Demand	No limit set		Every six months	BS ISO 15705
		Volatile Organic Compounds	No limit set		Every six months	BS EN ISO 15680
		Semi Volatile Organic Compounds	No limit set		Every six months	To be agreed in writing with NRW
		Total petroleum Hydrocarbons C6-C40	No limit set		Every six months	SCA blue book 77 ISBN 0117517283 2002 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales
		Fully Speciated Total Petroleum Hydrocarbons	No limit set		Every six months	To be agreed in writing with NRW
		Iron	No limit set		Every six months	BS EN ISO 11885
		Cadmium	No limit set		Every six months	BS EN ISO 5961
		Copper	No limit set		Every six months	BS EN ISO 11885
		Nickel	No limit set		Every six months	BS EN ISO 11885
		Lead	No limit set		Every six months	BS EN ISO 11885
		Zinc	No limit set		Every six months	BS EN ISO 11885

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
Surface water Soakaway on plan 4 in schedule 7	Surface water runoff from asphalt plant (A3) hardstanding drainage. Discharge via a settlement lagoon and oil interceptor	pH	No limit set	Spot Sample	Every six months	BS ISO 10523
		Suspended Solids	No limit set		Every six months	BS EN 872 or other method approved by NRW
		Chemical Oxygen Demand	No limit set		Every six months	BS ISO 15705
		Total petroleum Hydrocarbons C6-C40	No limit set		Every six months	SCA blue book 77 ISBN 0117517283 2002 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 [Point S1 on Site Plan in Schedule 7]	Occasional overflow from cooling tower cold well and the clarifier, released to Dŵr Cymru Welsh Water sewer at S2	Total hydrocarbons	5 mg/l	Spot Sample	Midway through drain down of cooling system	SCA blue book 77 ISBN 0117517283 2002 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales
		Suspended solids	20 mg/l			BS EN 872 or other method approved by NRW
		pH	6-10			BS ISO 10523
		Nickel	0.5 mg/l			BS EN ISO 11885
		Arsenic	0.01 mg/l			BS ISO 17378
		Cadmium	0.05 mg/l			BS EN ISO 5961
		Total Chromium	0.5 mg/l			BS EN 1233
		Zinc	2 mg/l			BS EN ISO 11885
		Mercury	0.02 mg/l			BS EN 12846
		Iron	5 mg/l			BS EN ISO 11885
		Flow	No Limit Set	Daily total flow	Continuous	Flow meter

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S2 [Point S1 on Site Plan in Schedule 7]	Site roof water run-off from dust extraction plant to SW corner or installation combined with any flow from occasional cooling water discharge from S1 in this table	Total hydrocarbons	5 mg/l			SCA blue book 77 ISBN 0117517283 2002 or other ISO, BS or SCA blue book method as approved by Natural Resources Wales
		Suspended solids	20 mg/l	Spot Sample	Annual	BS EN 872 or other method approved by NRW
		pH	6-10	Spot Sample	Annual	BS ISO 10523
		Nickel	0.5 mg/l	Spot Sample	Annual	BS EN ISO 11885
		Arsenic	0.01 mg/l	Spot Sample	Annual	BS ISO 17378
		Cadmium	0.05 mg/l	Spot Sample	Annual	BS EN ISO 5961
		Total Chromium	0.5 mg/l	Spot Sample	Annual	BS EN 1233
		Zinc	2 mg/l	Spot Sample	Annual	BS EN ISO 11885
		Mercury	0.02 mg/l	Spot Sample	Annual	BS EN 12846
		Iron	5 mg/l	Spot Sample	Annual	BS EN ISO 11885
S3 [Point S3 on site plan in Schedule 7]	Site surface water run-off from hardstanding to all but SE corner of installation, combined with foul water from site amenities					

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off site- emissions limits and monitoring requirements						
Emission point ref. & location	**Source**	**Parameter**	**Limits (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S4 [Point S4 on site plan in Schedule 7]	Surface water run-off	No parameters set	No limit set	-	-	-
S5 [Point S5 on site plan in Schedule 7]	Discharge from the integrated scrap metal recycling centre - Wash Plant Wastewater Treatment Plant discharge for foul sewer	No parameters set	No limit set	-	-	-

Table S3.4 Ambient air monitoring requirements				
Location or description of point of measurement	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
NGR ST 21118 76755 (Willows High School) or other agreed location	Wind Direction	Continuous	Turnkey Optical Particle Analysis System (TOPAS) monitor or other agreed method	-
	Wind Velocity			
	PM_{10} Particulate Matter			
	$PM_{2.5}$ Particulate matter			

Table S3.5 Process monitoring requirements				
Emission point reference	**Parameter**	**Monitoring frequency**	**Monitoring standard or method**	**Other specifications**
A5 Asphalt plant stack [Point A5 on Site Plan in Schedule 7]	Particulates	Continuous	BS ISO 10155	Hourly average result of greater than 20mg/m^3 (excluding start up and shutdown) shall result in investigation and corrective action as necessary

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 3.7.1.	A1	Quarterly	01/01, 01/04, 01/07, 01/10
Emissions to air Parameters as required by condition 3.7.1.	A1, A2, A5	Annual	01/01
Ambient air monitoring Parameters as required by condition 3.7.1	NGR ST 21118 76755 (Willows High School) or other agreed location	Quarterly	01/01, 01/04, 01/07, 01/10
Process monitoring Parameters as required by condition 3.7.1	A5	Quarterly	01/01, 01/04, 01/07, 01/10
Emissions to sewer Parameters as required by condition 3.7.1	S1, S2	Annual	01/01
Emissions to water Parameters as required by condition 3.7.1.	Discharge to soakaway on plan 3 in schedule 7 marked “15 – Sampling Point and Discharge Consented Point 1”. Emission to asphalt plant soakaway on plan 4 in schedule 7.	Every six months	01/01 and 01/07

Table S4.2: Annual production/treatment

Parameter	Units
Finished Steel annual production from activity A1	tonnes
Slag annual treatment, activity A2	tonnes
Asphalt annual production from activity A3	tonnes
Waste transfer station with treatment, activity A10, annual treatment	tonnes
Integrated scrap metal recycling centre, activity A11, annual treatment	tonnes
Metal recycling site (mixed MRS) including end of life vehicle de-pollution, activity A12, annual treatment	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Energy usage	Annually	MWh
Electrical energy consumption	Annually	KWh
Water consumption	Annually	M^3
Particulates generated	Annually	kg

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form Air 1 or other form as agreed in writing by Natural Resources Wales	05/05/2020
Air	Form Air 2 or other form as agreed in writing by Natural Resources Wales	05/05/2020
Ambient Air	Agreed Format or other form as agreed in writing by Natural Resources Wales	N/A
Process monitoring	Form Process Monitoring 1 or other form as agreed in writing by Natural Resources Wales	05/05/2020
Annual production / treatment	Form Production 1 or other form as agreed in writing by Natural Resources Wales	05/05/2020
Sewer	Form Sewer 1 or other form as agreed in writing by Natural Resources Wales	05/05/2020
Water and Land	Form Water 1 or other form as agreed in writing by Natural Resources Wales	05/05/2020
Waste Subject to Conditions 4.2.5 and 4.2.6	Waste tonnage return form from the Environment Agency website or other form as agreed in writing by Natural Resources Wales	N/A
Energy usage	Form E1 or other form as agreed in writing by Natural Resources Wales	11/05/05
Other performance indicators	Form PI1 or other form as agreed in writing by Natural Resources Wales	11/05/05

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	**EPR/TP3639BH**
Name of operator	**Celsa Manufacturing (UK) Limited**
Location of Facility	**Tremorfa Melt shop, Tremorfa Works, Seawall Road, Cardiff, CF24 5TH**
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified within 24 hours	
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 permit condition	
To be notified within 24 hours	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

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

(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:	
To be notified within 24 hours	
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 CELSA Manufacturing (UK) Limited

Schedule 6 - Interpretation

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

"Annex I" means Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Annex II" means Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"annually" means once every year.

"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 Natural Resources Wales 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.

"best available treatment, recovery and recycling techniques" shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled "Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE).

"*building*" means a construction that has the objective of providing sheltering cover and minimising emissions of 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 on waste.

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

"emissions to land" includes emissions to groundwater.

"End-of-Life Vehicles Directive" means Directive 2000/53/EC of the European Parliament and Council of 18 September 2000 on end-of-life vehicles.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"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 lll of the Waste Framework Directive.

"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.

"*hazardous waste"* has the meaning given in the Hazardous Waste (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

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

"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 on waste.

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

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

"WEEE" means waste electrical and electronic equipment.

"WEEE Directive" means Directive 2012/19/EU of the European Parliament and of the Council of 4th July 2012 on waste electrical and electronic equipment (WEEE).

"year" means calendar year ending 31 December.

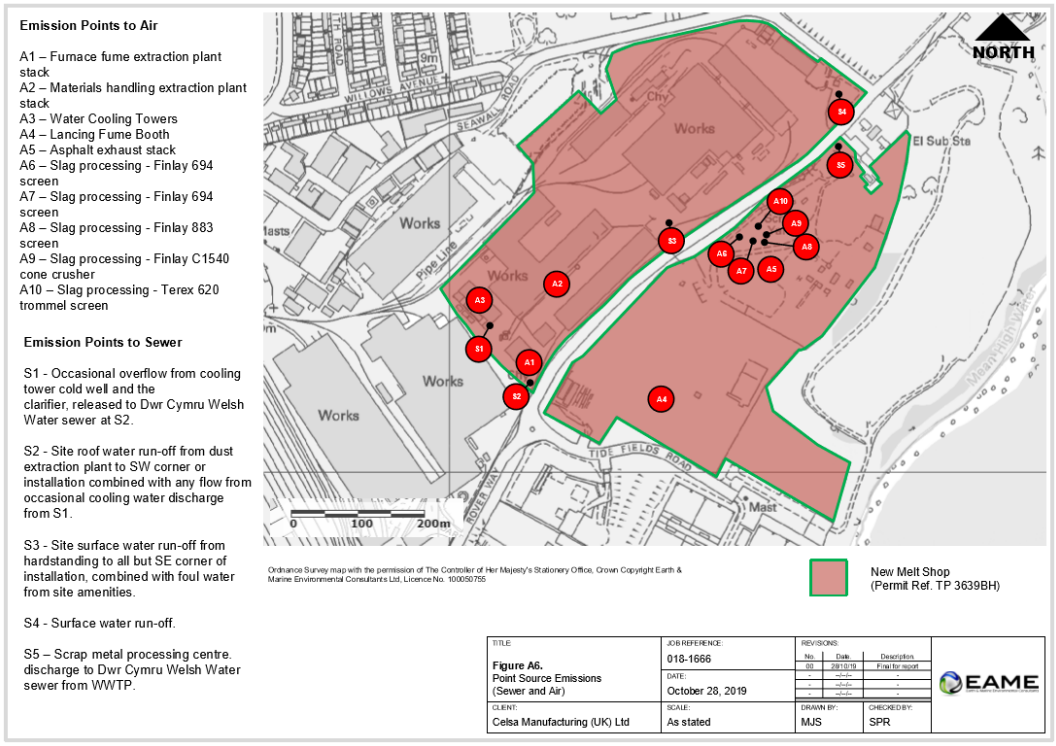
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

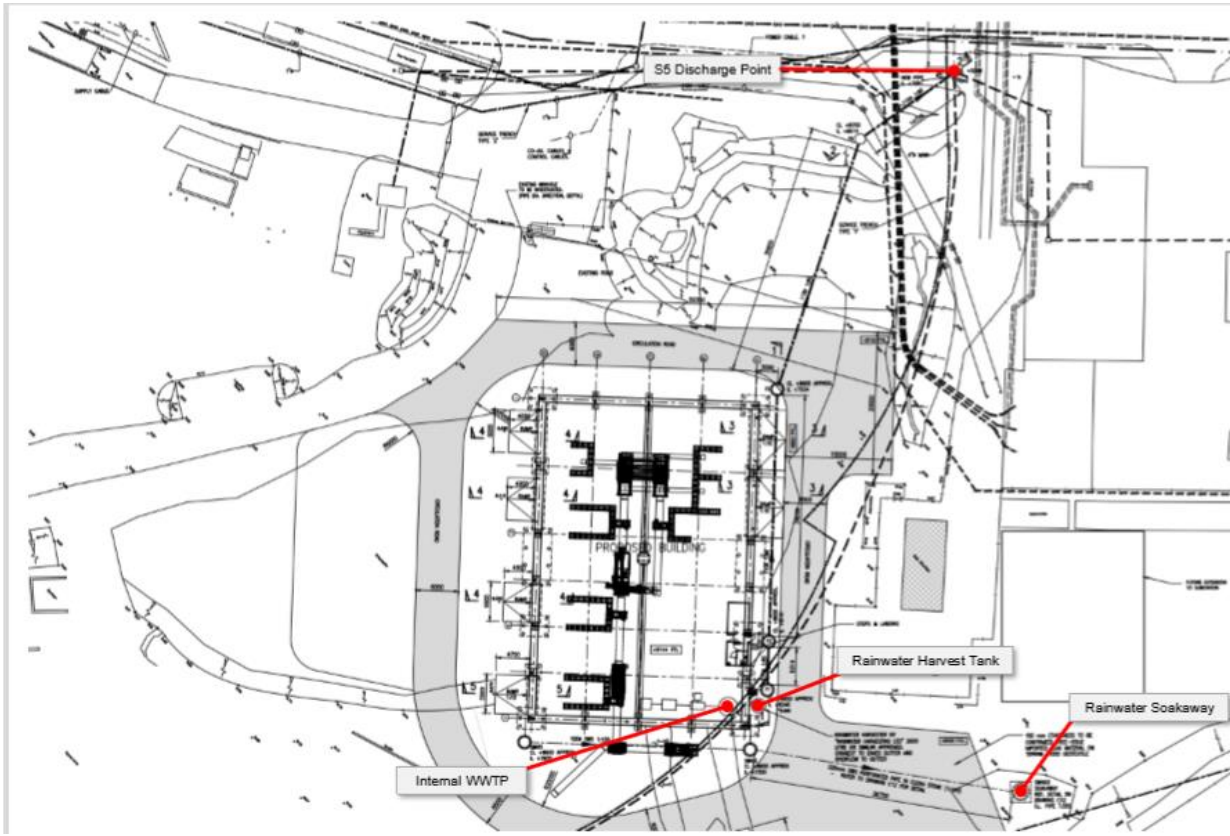
(a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

(b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

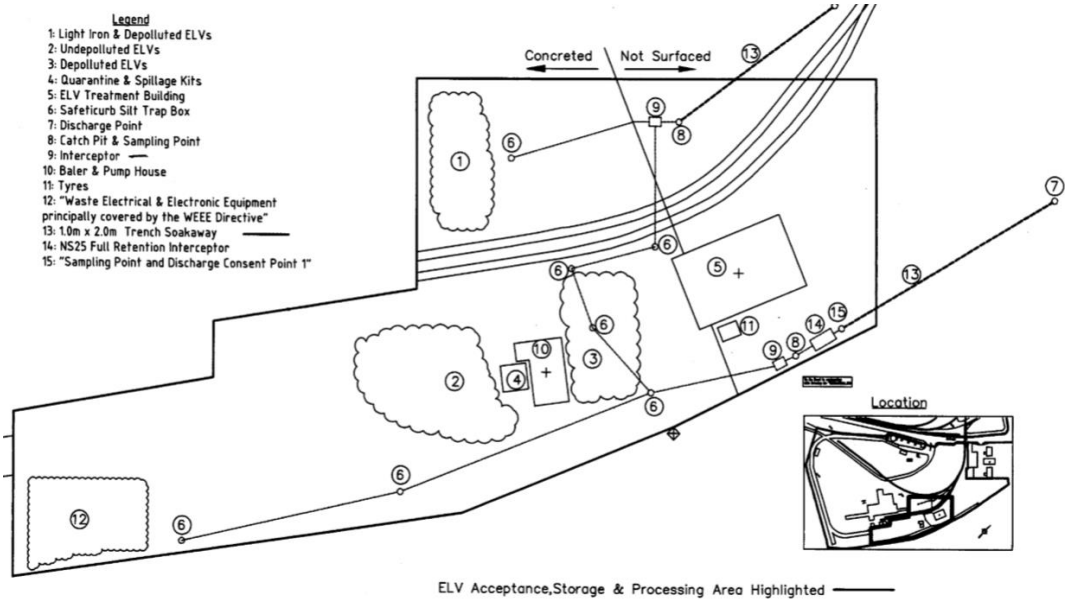
Schedule 7 - Site plan



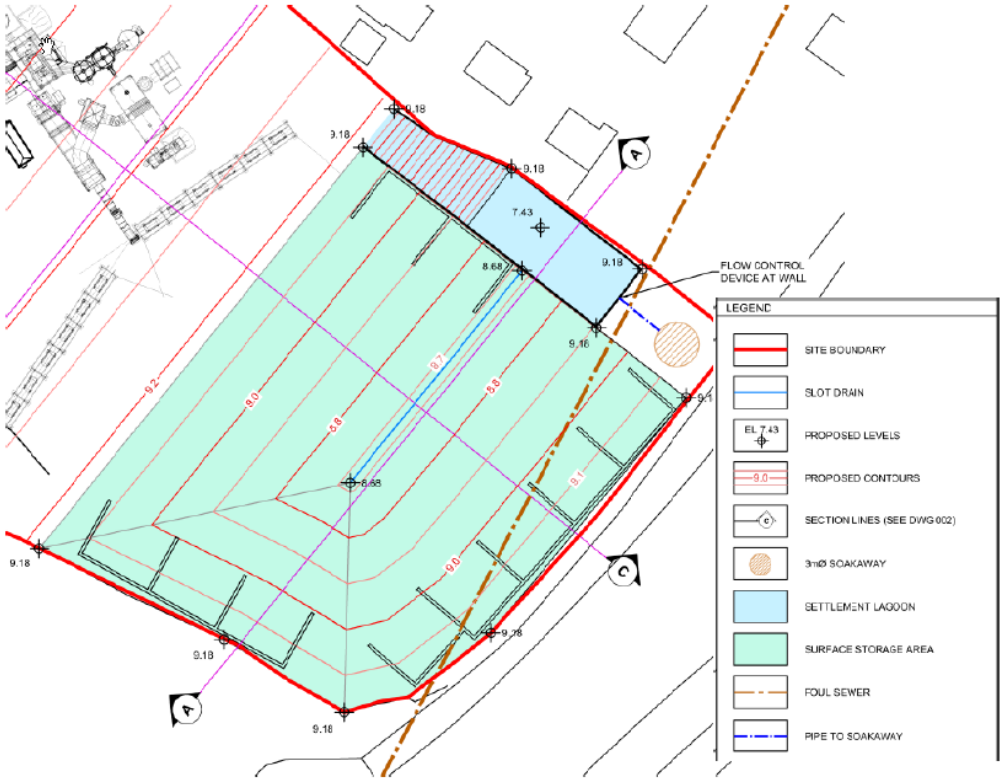
Plan 2


S5 Discharge Point
Rainwater Harvest Tank
Rainwater Soakaway
Internal WWTP

Plan 3:


Legend
1: Light Iron & Depolluted ELVs
2: Undepolluted ELVs
3: Depolluted ELVs
4: Quarantine & Spillage Kits
5: ELV Treatment Building
6: Safeticurb Silt Trap Box
7: Discharge Point
8: Catch Pit & Sampling Point
9: Interceptor
10: Baler & Pump House
11: Tyres
12: "Waste Electrical & Electronic Equipment principally covered by the WEEE Directive"
13: 1.0m x 2.0m Trench Soakaway
14: NS25 Full Retention Interceptor
15: "Sampling Point and Discharge Consent Point 1"
Concreted
Not Surfaced
Location
ELV Acceptance,Storage & Processing Area Highlighted

Plan 4 (asphalt plant)



Note: The red line "site boundary" in Plan 4 denotes the demarcation of the asphalt plant, and is not the permit boundary (as shown in Plan 1 by the green line).

END OF PERMIT