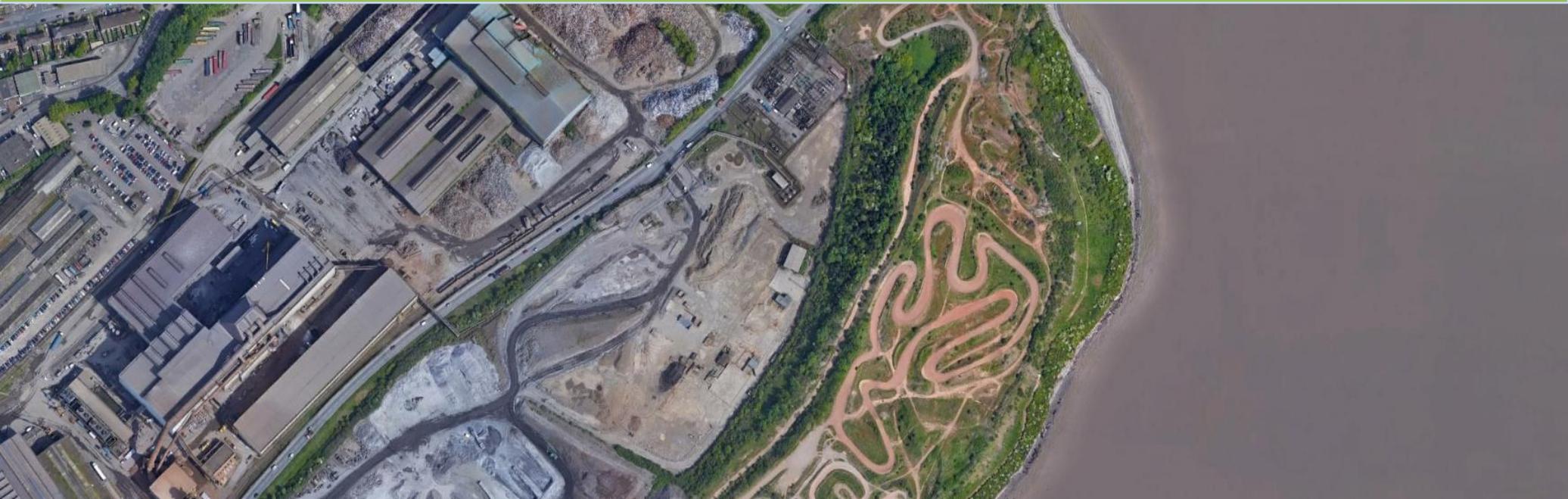


Environmental Permit (Variation)
Celsa Manufacturing (UK) Ltd, Tremorfa Melt Shop. Tremorfa
Works, Seawall Road, Cardiff, CF24 5TH
Non-Technical Summary (Permit No. EPR/TP3639BH)
PAN-026085

025-1994 | January 2025 | Revision 00



Introduction

This document has been prepared by Celsa Manufacturing (UK) Ltd (“Celsa”) and its environmental consultant Earth & Marine Environmental Consultants Ltd (“EAME”) in support of a permit variation as required under Regulation 20 of the *Environmental Permitting (England and Wales) Regulations 2016* concerning current and proposed activities to be undertaken at Tremorfa Melt Shop. Tremorfa Works, Seawall Road, Cardiff, CF24 5TH (Permit No. EPR/TP3639BH) (Figure 1).

The changes proposed as part of this variation are:

- **Asphalt Plant (variation of operating hours)** – Proposal to bring the asphalt plant into line with the rest of the melt shop activities (i.e. allow operation 24 hours per day, seven days per week, for up to 52 weeks per year with planned maintenance occurring as and when required).
- **Melt Shop (addition of new Directly Associated Activity)** – Processing of the Drop Out Box and Quench Tower (DOB & QT) material through screening and milling to improve material recovery options/rates.

The document represents the Non-technical Summary report submitted as part of the variation package to Natural Resources Wales (NRW) (EAME Ref. 025-1994).



Figure 1: Site Location - Ordnance Survey Map Extract (1:50,000)

Ordnance Survey 1: 25,000 scale map with the permission of the Controller of Her Majesty's Stationery Office, Crown Copyright Earth and Marine Environmental Consultants Ltd, Licence No. 100050755

S02 Proposed Change – Asphalt Plant

Current Situation

The proposed variation relates to the operation of the asphalt plant (Chapter 3, S3.5 Part B (e)) and the directly associated activity (DAA) slag processing operations (that feed the asphalt plant) that were added to the environmental permit via EPR/TP3639BH/V009 (PAN-008611).

Schedule 1 – Table S.1. Activity A3 of the current permit (EPR/TP3639BH/V010) includes the following operational limits:

- The asphalt plant shall not be used except between the hours 06:00 - 17:00 daily.

Proposed Change

The operator wishes to extend the potential operating period to:

- The asphalt 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.

This proposed change aligns the asphalt plant with the Chapter 2, S2.1, Part A(1)(b)(i) Electric Arc Furnace (EAF) that 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.

The proposed change will allow the operator to operate in a more flexible manner allowing it to support a wider range of customer requests. It is important to note that the plant will not (necessarily) operate continually but rather as and when demand requires it.

The potential environmental impacts associated with the proposed change are outlined in the Air Emissions Risk Assessment and Noise Impact Assessment.

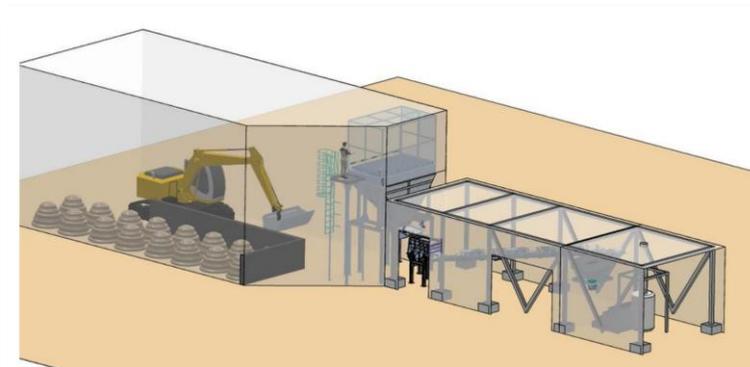


Photograph 1: *Currently operational asphalt plant*
<https://www.steelphalt.com/contact-us-stl>

Location

The proposal is to install a fully enclosed activity to collect and process DOB & QT Materials. The small building (composed of an existing structure with a new small extension) is to be located between the existing electrical supply building and the large de-dust plant.

The new building is significantly lower than either the existing electrical supply building or the de-dust plant. It will not be visible from the north at all (due to existing screening).



Emissions and Controls

Emissions from the process will be fully controlled with the main receiving hopper fitted with a fixed duct and sensor-controlled damper for direct extraction during loading and the crusher/screener system will be housed entirely within the enclosed building. Other controls will include:

- Refurbishing and repurposing the old extraction system to provide both general and local extraction capabilities.
- Installing a matrix of discrete air washes to maximize dust capture during processing.
- Weatherproofing and sealing the existing grading shed to create a fully enclosed environment, minimizing dust escape.
- Ensuring all dust handling operations are contained within enclosures and take place during daylight hours only.



Photograph 2: *Proposed location of processing equipment*

Noise and Vibration

TNEI was commissioned by Harsco (the operator of the asphalt plant) to undertake an environmental Noise Impact Assessment (NIA) to support the proposed extension of operating hours of the Steelphalt site.

The report (Ref. 16195-001-R0) concludes that it is considered that the extension of operational hours of the Steelphalt site to include night-time operation will not have an adverse noise impact on the local area.

No actions have been identified.

Air Emissions Risk Assessment

SLR Consulting Limited (SLR) has been commissioned by Harsco Metals Group Limited to undertake an Air Emissions Risk Assessment (AERA) to support their Environmental Permit variation application (Ref. SLR Project No.: 422.065025.00001).

The conclusions of the AERA are as follows:

- the overall effect on air quality is considered ‘not significant’; and
- the emissions from the plant are considered to cause ‘no likely significant effect’ to the Ramsar, SPA and SAC sites, ‘no likely damage’ to the SSSI and ‘no significant pollution’ to the SINC sites.

No actions have been identified.

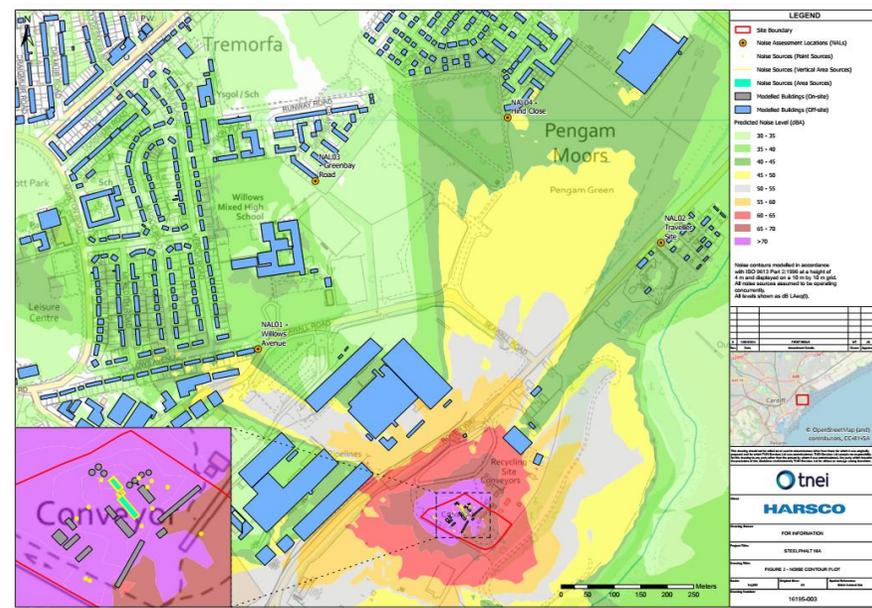


Figure 2: Noise impact assessment - modelling

TNEI Ref. 16195-001-R0

All other (previously stated) controls and systems remain operational, and the installation continues to apply best available techniques (BAT).

Emissions to Air

The DOB & QT process will not create any new point source emissions. Local air extraction systems will be treated within the existing permitted plant and emitted to air (abated) via emission point A1.

The proposed implementation of the DOB & QT process will significantly reduce the potential release of fugitive dust emissions into the air from the handling and storage of DOB and QT-derived materials through:

- reduced travel distances (170 metres instead of 800 metres);
- processing with a fully enclosed building fitted with LEV; and
- storage within sealed bulk bags.

Emissions to Water

There is no water use associated with the proposed activity. All drainage within the process area remains sealed.

Noise

The DOB & QT processing will occur within a new fully refurbished and enclosed building located between two large existing structures (i.e. de-dust plant and electrical building). The plant is relatively minor in size and scale and is effectively screened by the surrounding buildings. No new external plant is to be installed as part of the Project.

No additional noise impacts are predicted.



Photograph 3: *Proposed location of processing equipment*

Celsa is currently reviewing the use of open-topped skips as they present a source of fugitive emissions during the initial loading. The use of open topped skips isn't considered Best Available Technology (BAT) when compared to BAT 11 (IX) (European Commission, 2012).



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