

Noise Assessment

Report Ref: ITM - EP001 - 016

Submitted to:

Environment Agency

In Support of Permit Application Ref:

EPR/HP3640QD/A001 & EPR/AP3225SE/P001

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Date: 13th September 2023

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1. Introduction

1.1 Background

The following noise assessment report has been developed for ITM Power (Trading) Limited, located in Unit 2 Bessemer Park, Shepcote Lane, Sheffield. S9 1DZ. The National Grid Reference for the site is SK 39894 90515. The site is applying for an Environmental Permit, pre-application reference number EPR/HP3640QD/A001. The details of the environmental permit application can be found within the report reference ‘ITM-EP001-007 Installation Information’ and other supporting documents referenced therein.

The site manufactures and tests electrolyzers that generate hydrogen from water.

1.2 Noise Assessment Scope

This report covers the area of the site included within the Installation Boundary, as shown by the ‘Installation Boundary Plan’ within report ITM-EP001-004.

The focus of the noise assessment is the product testing activity, which happens within the Installation boundary but is not a Regulated Activity (RA) or a Directly Associated Activity (DAA).¹

- 1. As per the formal Enhanced Pre-Application Advice Response from the Environment Agency (Ref: EPR/HP3640QD/A001)

The product testing activity occurs in the external testing yard, which is located on the north of the Installation boundary, as shown in Image 1.1 below.

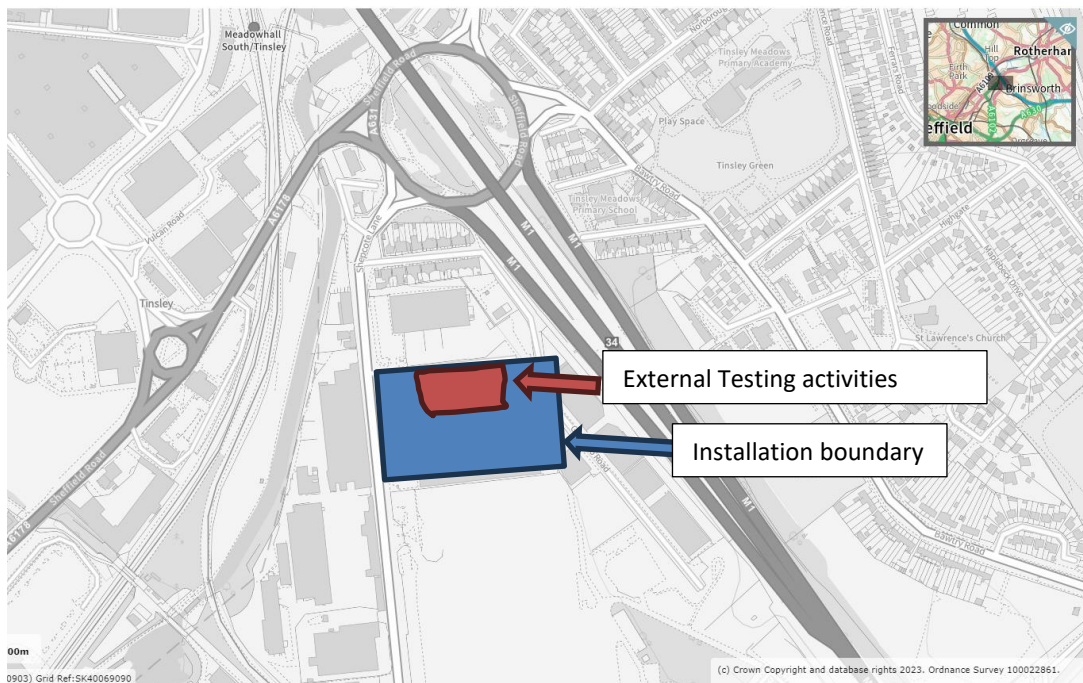


Image 1.1: Installation boundary and location of external testing activities

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1.3 Existing noise abatement measures

The site of the Installation was developed in 2019 by PLP Property, acoustic fencing was installed during the course of the development to protect the residential properties on Greasbro Road from noise associated with the ongoing use of the development.

This acoustic fencing sits to the north of site as shown in Image 1.2 below:

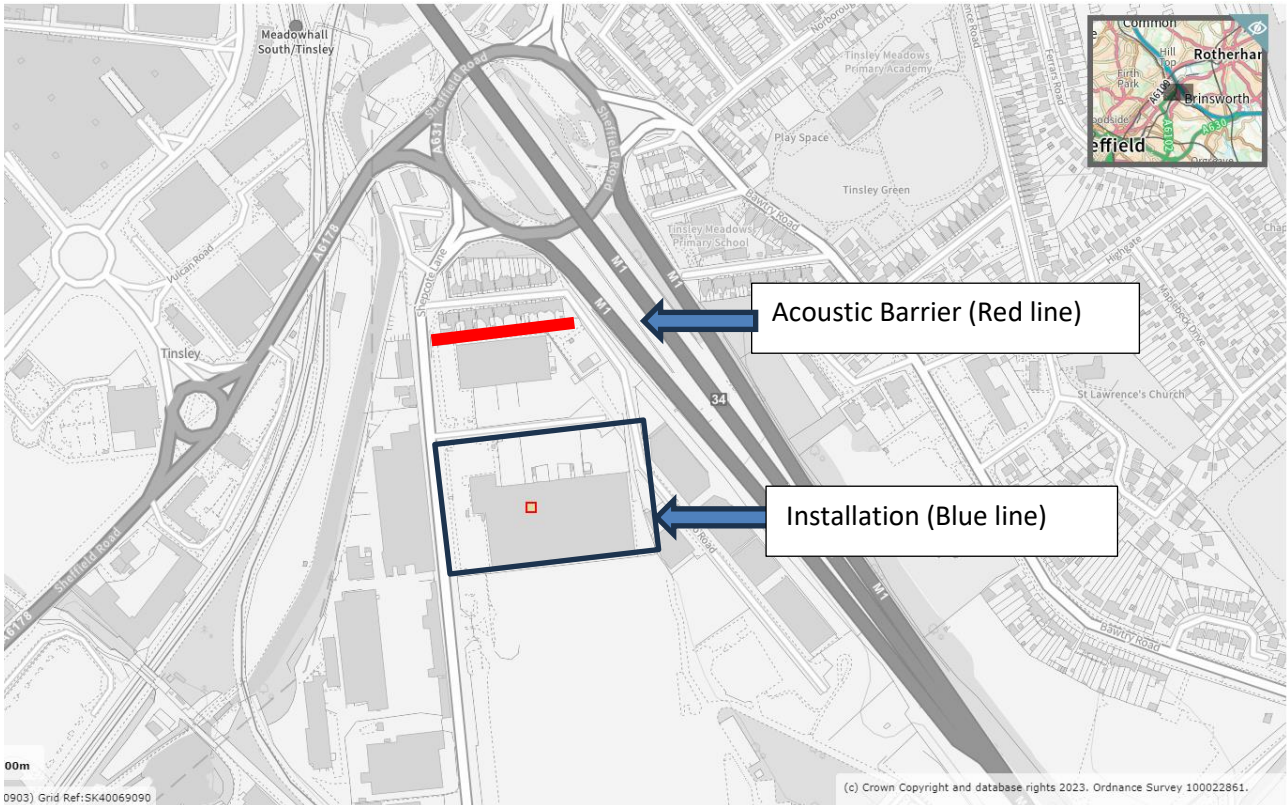


Image 1.2: Location of existing acoustic fencing north of the installation boundary

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2. Noise Survey

Synergy Environmental Solutions Limited were appointed by ITM Power to undertake an environmental noise survey at the company’s Unit 2 Bessemer Park, Shepcote Lane site, Sheffield.

The purpose of the survey was to establish background and residual sound levels whilst the company’s Shepcote Lane site was on shutdown and not producing any noise.

These levels were later compared to measurements taken while the site is operational; comparing the levels from these two measurement periods, a full BS 4142 assessment was produced.

Based on the conditions observed during this second survey, it can be concluded that sound produced by ITM Power has no adverse impact on nearby residential properties.

The reports listed in Table 2.1 below provide details of the standards and methods used for the noise assessments.

Table 2.1 – Sources of information			
Report Name	Report Reference	Report Date	Report Author
Environmental Noise Survey Results	17220	24 th Aug 2022	Aidan Willis
Report for the BS4142:2014+A1:2019 Assessment	18293	18 th July 2023	Aidan Willis

Based on the results of the noise assessments listed above, ITM Power see no requirement for additional noise abatement for the noise generated from the activities undertaken within the installation boundary, and ITM Power consider impact from noise from the Installation to be low risk as per the Environmental Risk Assessment in ITM – EP001 – 005.

Appendix 1: Report for the BS4142:2014+A1:2019 Assessment

Please see attached report reference 18293.

Appendix 2: Report for the Results of the Environmental Noise Survey

Please see attached report reference 17220.

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