



CELSA™
GROUP



Site Condition Report (Bespoke Application) Celsa Manufacturing (UK) Ltd, Rotherham Steel Terminal, The Ickles, Sheffield Road, Rotherham, S60 1BN

On behalf of:
Celsa Manufacturing (UK) Ltd

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Abbreviations

ASR	Application Site Report
BGS	British Geological Survey
EA	Environment Agency
EAME	Earth & Marine Environmental Consultants Ltd
EPR	Environmental Permit
NGR	National Grid Reference
NVZ	Nitrate Vulnerable Zone
SCR	Site Condition Report
SPZ	Source Protection Zone
WFD	Water Framework Directive

Bibliography

- Environment Agency. (2013). *Environmental permitting: H5 Site condition report Ref: LIT 8001*. EA. Retrieved from <https://www.gov.uk/government/publications/environmental-permitting-h5-site-condition-report>
- UK-Government. (2023, July). *Land contamination risk management (LCRM) Guidance*. Retrieved from <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>

1 Introduction

1.1 Background

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 bespoke permit application as required by the *Environmental Permitting (England and Wales) Regulations 2016* in relation to current and proposed activities to be undertaken at the Rotherham Steel Terminal, The Ickles, Sheffield Road, Rotherham, S60 1BN (the “Site”).

This document has been prepared in-line with the current Environment Agency (EA) Guidance *i.e.* Environmental Permitting Regulations Guidance for Applicants H5 Site Condition Report – Guidance and Templates (Environment Agency, 2013). As this is considered an application Sections 1 to 3, as outlined in the Site Condition Report (SCR) Template, are provided below.

1.1.1 Previous Operator

The Site was historically operated by DB Schenker Rail (UK) Limited as a standard rules activity SR2009 No.7 (storage of furnace ready scrap metal for recovery) – Ref. DB Schenker Rail (UK) Limited, Rotherham Steel Terminal, The Ickles, Sheffield Road, Rotherham, South Yorkshire, S60 1BN, Permit number: EPR/PB3431RJ, Dated 19/09/2013 (**Figure 1-1**).

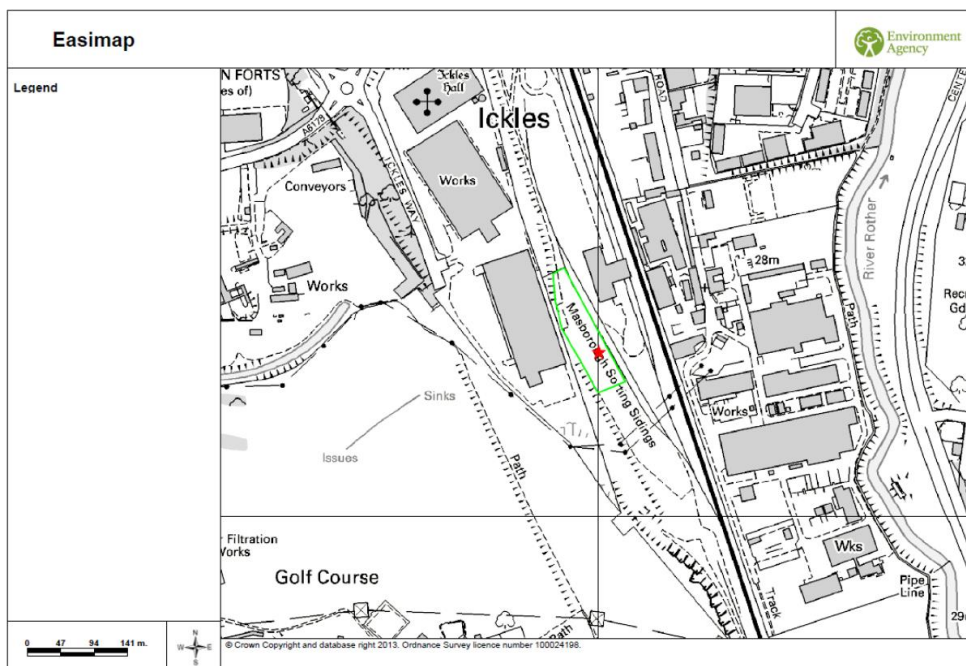


Figure 1-1: Permit boundary

As the EA is aware, to ensure compliance with the Standard Rules requirements, DB Schenker Rail (UK) Limited intentionally blocked up the surface water drains on the Site where upon collected run-off (liquids) were taken off-site in a tanker for disposal.

1.1.2 Permit Transfer

On the 22 March 2023 the DB Schenker Rail (UK) Limited permit (Ref. EPR/PB3431RJ) was transferred to Celsa Manufacturing (UK) Ltd (Ref. EPR/PB3431RJ). The permit currently remains under Standard Rules (i.e. cannot be varied or changed).

Post permit transfer the Site has been subject to significant investment, this has included:

- new access road from the entrance to the waste storage area;
- new impermeable surfacing for the waste storage area adjacent to the rail loading area; and
- new drainage system (with treatment) connected to the existing DB Schenker Rail (UK) Limited drainage system prior to discharge into the Yorkshire Water sewer.

As the liquids (from the newly engineered slab) are discharged into the sewer under consent of DB Schenker Rail (UK) Limited /Yorkshire Water the Site remains in compliance with the current Standard Rules requirements outlined in SR2009 No.7.

1.1.3 Proposed Bespoke Application

The Celsa Rotherham Storage Site provides a scrap metal feed to the Part A(1) permitted Electric Arc Furnace (EAF) in Cardiff. Celsa wishes to expand the type of waste that can be stored and loaded to rail at the Site. Unfortunately, Standard Rules permits cannot be varied, hence this application and conversion to a bespoke permit. The scope of this application includes:

- expansion of the permit boundary to include the access road and oil/water separator (i.e. the final sewer discharge (compliance) point);
- description of the revised Site layout and new impermeable surfacing and drainage system; and
- inclusion of **one** new List of Waste Code i.e. 16-01-06 end-of-life vehicles, containing neither liquids nor other hazardous components (Absolute Non-hazardous) beyond that already contained within SR2009 No.7.



Figure 1-2: Proposed permit boundary (Celsa Rotherham Storage Site)

It is important to note that no waste storage or processing would be undertaken within the area labelled as 'Internal Road Access' (**Figure 1-2**) but all inbound waste containing vehicles

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would be required to pass through this area to access the waste storage area. Given that the drainage from the waste storage area (red area in **Figure 1-2**) passes through the road access area Celsa requires that this area is included within the bespoke permit boundary.

It is important to note that this report and associated permit application relates to the current Celsa Manufacturing (UK) Limited permitted operations (Ref. EPR/PB3431RJ) referred to as the 'Celsa Rotherham Storage Site' and not the adjacent (but separate) 'Celsa Rotherham Processing Site' that is subject to a Standard Rules permit under SR2015 No.14 (Ref. EPR/WE4947AA).

The remainder of this document outlines the requirements requested by the EA to progress the permit application.

2 Site Details

The Site details are outlined within **Table 2-1**.

Table 2-1: Site details

Required Information	
Name of Applicant	Celsa Manufacturing (UK) Ltd
Activity Address	Rotherham Steel Terminal, The Ickles, Sheffield Road, Rotherham, S60 1BN
National Grid Reference (NGR)	Central Site grid reference (6 figure): SK 41988 91242
Document reference and dates for Site Condition Report at permit application and surrender	<p><u>Application</u> EAME (2024). Site Condition Report (Bespoke Application) Celsa Manufacturing (UK) Ltd, Rotherham Steel Terminal, The Ickles, Sheffield Road, Rotherham, S60 1BN (this document).</p> <p><u>Variation</u> N/A</p> <p><u>Surrender</u> N/A</p>
Document references for site plans (including location and boundaries)	<p>Annex A: Site Plans Annex B: Phase I Contaminated Land Assessment Annex C: Phase II Contaminated Land Assessment</p> <p>Note: The Phase I Contaminated Land Assessment was undertaken in November 2020 and the Phase II Contaminated Land Assessment in January 2021 during the DB Schenker Rail (UK) Limited period of control and operation.</p>

3 Condition of Land at Permit Issue

3.1 Environmental Setting

Desk-based research of the local geology, hydrogeology, hydrology, and ecology was carried out to establish the potential for migration of contamination onto or away from the Site, and to assess the surface water and groundwater sensitivity of the surrounding area.

The results of the assessment are outlined within **Annex A** (Phase I Contaminated Land Assessment).

3.1.1 Location

The Site is located approximately 1.5-km south southwest of central Rotherham at National Grid Reference (NGR) SK 41988 91242

The Site is in a predominantly industrial/commercial area. The following current activities have been identified surrounding the Site:

- **NORTH** – Industrial land use (DB Schenker, WFE Hydraulics and South Yorkshire Springs and Coatings) beyond which is Sheffield Road (A6178), more light industrial land use and the River Don.
- **EAST** – Rotherham freight terminal, Midland Mainline beyond which is industrial land use.
- **SOUTH** – Open land beyond which is residential housing (part of the Brinsworth area).
- **WEST** – Industrial land use (Symphony) beyond which is Harsco SteelPhalt and Phoenix Golf Club.

The nearest residential property is located approximately 150 metres to the south.

Full details are outlined within **Annex A** (Phase I Contaminated Land Assessment).

3.1.2 Geology

The relevant British Geological Survey (BGS) 1:50,000 map of the area (Sheet 100, Sheffield, solid and drift, 2011) and the BGS Onshore GeoIndex, outline that the Site is directly underlain by:

- **Artificial ground** – The Site area is classified by the BGS as artificial Made Ground (undivided).

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- **Superficial deposits** – No superficial deposits are recorded.
- **Bedrock deposits** – The majority of the Site is underlain by Pennine middle coal measures formation (mudstone, siltstone, and sandstone). The southern end of the Site is underlain by Mexborough Rock (Sandstone).

Full details of the desk study are outlined within **Annex A** (Phase I Contaminated Land Assessment) with actual baseline Site data presented in **Annex B** (Phase II Contaminated Land Assessment).

3.1.3 Hydrogeology

From a review of the EA on-line maps the Site is located on the following:

- **Superficial Deposits** – No superficial deposits.
- **Bedrock Deposits** – The bedrock deposits have been designated by the EA as a Secondary A Aquifer (medium/high vulnerability). These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers. The EA classification is a ‘moderately productive aquifer’.

Full details of the desk study are outlined within **Annex A** (Phase I Contaminated Land Assessment).

3.1.4 Hydrology

There are no on-site water features. The closest surface water features are:

- River Rother – approximately 250 metre east of the Site, flowing in a northerly direction.
- River Don – approximately 230 metres north of the Site, flowing in an easterly direction.
- Holmes Goit – also known as the Sheffield to Keadby Canal, approximately 650 metres north of the Site

Full details of the desk study are outlined within **Annex A** (Phase I Contaminated Land Assessment).

3.1.5 Flood Risk

Full details of the desk study are outlined within **Annex A** (Phase I Contaminated Land Assessment).

3.1.6 Ecology

The MAGIC website which is managed by the Department for Environment, Food and Rural Affairs (Defra), was queried to locate Sites of Special Scientific Interest (SSSI), Special Protection Areas (SPAs), Special Areas of Conservation (SACs), Ramsar sites, National Nature Reserves (NNR), Areas of Outstanding Natural Beauty (AONB), National Parks, Ancient Woodland and Local Nature Reserves (LNR) within 1-km of the Site.

The closest protected area is Centenary Riverside LNR approximately 340 metres north of the Site. The South and West Yorkshire Greenbelt area is located 440 metres east of the Site.

3.1.7 Residential Receptors

The closest residential properties are located approximately 150 metres south of the Site (Brinsworth).

3.1.8 Protected Buildings

Both the MAGIC and Historic England websites were queried to locate Scheduled Monuments, World Heritage sites and Listed Buildings. There are no listed features within 250 metres of the Site.

3.2 Pollution History

3.2.1 Pollution incidents that may have affected land

Reportedly there have been no significant pollution incidents at the Site reported by either DB Schenker Rail (UK) Limited or Celsa (since permit transfer on 22 March 2023).

A full assessment of the Site conditions is outlined within **Annex A** (Phase I Contaminated Land Assessment).

3.2.2 Historical land-uses and associated contaminants

A full assessment of the historical land uses including a Qualitative Risk Assessment compliant with Land Contamination: Risk Management (LCRM) guidance (UK-Government, 2023) is outlined within **Annex A** (Phase I Contaminated Land Assessment).

An updated planning history (compiled on 18th January 2024) is outlined within **Table 3-1**.

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Table 3-1: Planning history 2013-2024

Application	Date	Description and Status
RB2013/1331	2013-10-03	Installation of a biomass energy development incorporating a 350,000 tpa wood pellet manufacturing process and an associated biomass combined heat & power (CHP) plant. GRANTED CONDITIONALLY
RB2014/1045	2014-08-04	Application to vary condition 02 (minor changes to footprint and elevations and the installation of a conveyor belt between buildings 1 and 11) imposed by RB2013/1331 (Installation of a biomass energy development incorporating a 350,000 tpa wood pellet. GRANTED CONDITIONALLY
RB2014/1648	2014-12-16	Non-material amendment to RB2014/1045 to amend Conditions 01, 24, 38 and 39. GRANTED
RB2015/0064	2015-01-20	Application to vary condition 01 (minor changes to footprint and elevations of building 4) imposed by RB2014/1045 Application to vary condition 02 (minor changes to the footprint and elevations and the installation of a conveyor belt between buildings 1. GRANTED CONDITIONALLY
RB2015/0091	2015-01-26	Non-material amendment to application RB2014/1045 to include a reduction in the footprint of the battery room annex to Building No.3. GRANTED
RB2015/1048	2015-07-24	Nonmaterial amendment to application RB2015/0064 to include relocation of the Steam Turbine Building, Main Electrical Building, Ready to Firewood Storage Building, Receiving & Processing Building and also the Conveyor Structure that links the Ready. GRANTED
RB2015/1059	2015-08-03	Application to vary condition 02 (approved plans) imposed by RB2015/0064 (Application to vary condition 01 (minor changes to footprint and elevations of building 4) imposed by RB2014/1045 Application to vary condition 02 (minor changes to the footprint. GRANTED CONDITIONALLY

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Application	Date	Description and Status
RB2016/0190	2016-02-16	Non-material amendment to application RB2015/1059 to relocate and change shape and height of the substation. GRANTED
RB2016/1115	2016-08-22	Non-material amendment to application RB2015/1059 to include relocation and change in height & shape of substation and footprint area will not exceed that indicated previously. GRANTED
RB2020/0034	2020-01-14	Nonmaterial amendment to application RB2018/0520 to include amendments to the Boiler House, Building 13, FGT, Fire Water Pump House, Fuel Tank Bund, Main Electrical Building & Turbine Hall, Substation and Wood Store. GRANTED
RB2019/1390	2020-02-05	Construction and operation of a metal recovery centre (Shear Processing Plant) including associated access. GRANTED CONDITIONALLY
RB2021/1156	2021-06-01	Application to vary condition 02 (re-configuration of site layout of shear processing area) imposed by planning application RB2019/1390. GRANTED CONDITIONALLY
RB2022/0205	2022-01-28	Application to vary conditions 2 & 3 (approved plans & materials) imposed by RB2021/1156. WITHDRAWN
RB2022/0240	2022-02-10	Application to vary conditions 2 & 3 (approved plans) imposed by RB2021/1156. GRANTED CONDITIONALLY
<p>Notes: Planning records presented above are as per the Rotherham Metropolitan Borough Council website (https://maps.rotherham.gov.uk/mapping/). Some records do not appear to be correctly assigned or recorded to the proposed permit area.</p>		

3.2.3 Any visual/olfactory evidence of existing contamination

A full assessment of the Site conditions is outlined within **Annex A** (Phase I Contaminated Land Assessment).

3.2.4 Evidence of damage to pollution prevention measures

The pollution control measures, as reviewed in 2020, are outlined within **Annex A** (Phase I Contaminated Land Assessment).

Surfacing and drainage improvements, (in-line with Best available techniques (BAT) installed since the 2020 Phase I assessment are outlined within the main installation report.

3.2.5 Evidence of historic contamination, for example historical site investigation, assessment, remediation and verification reports (where available)

A ground investigation is outlined within **Annex B** (Phase II Contaminated Land Assessment). This represents the proposed baseline conditions for the permit.

No remediation has been undertaken at the Site.

3.2.6 Baseline soil and groundwater reference data

The collection of representative baseline soil and groundwater data is important as it allows an operator to demonstrate soil and groundwater conditions at permit issue and at surrender. In addition, since the introduction of the Industrial Emissions Directive (IED), all permits have been reviewed to include a standard requirement:

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.

Baseline soil and groundwater conditions are outlined within **Annex B** (Phase II Contaminated Land Assessment).

4 Permitted Activities

4.1 Proposed Activity

The proposed activities associated with the bespoke permit would meet the following description:

- Storage of furnace ready scrap metal for recovery.
 - The total quantity of waste that can be accepted at a Site is less than 1,000,000 tonnes a year.
 - List of Waste (LoW) codes outlined within SR2009 No.7 plus **one** additional LoW code i.e. 16-01-06 end-of-life vehicles, containing neither liquids nor other hazardous components (Absolute Non-hazardous).

All conditions are as per the existing Standard Rules permit plus the additional one LoW Code.

4.2 Non-permitted activities undertaken

The Site has offices (cabins), welfare facilities and an employee car parking area. Although these areas/activities are not considered part of the permitted installation the area within which they are located has been included within the permit boundary.

4.3 Other requirements

Plans showing activity location and layout are provided in **Annex A**. The environmental risk assessment is outlined within the main technical document.

Annex A: Figures

Annex B: Phase I Contaminated Land Assessment



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Annex C: Phase II Contaminated Land Assessment