

HARTCLIFFE HOUSEHOLD REUSE AND RECYCLING CENTRE

Environmental Permit Application

Site Condition Report

Prepared for: Bristol Waste Company Limited

Ref: EPR/JP3706HR/A001

SLR Ref: 402.08721.00003
Version No: Final v1
September 2021



BASIS OF REPORT

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Appendix SCR1: Hartcliffe Way HRRC Geo-environmental Assessment, A Report for Bristol Waste Company, Yellow Sub Geo Ltd, (Ref: P19108_R3_Hartcliffe_20.09), September 2019.

Appendix SCR2: Contract Completion Report, Hartcliffe Way, Sanctus Limited (Ref: S2775-005 Rev.A, February 2021).

DRAWINGS

Drawing 001 Environmental Permit Boundary

Drawing 002 Site Layout, Fire Management and Prevention

Drawing 003 Environmental Site Setting

Drawing 017 Proposed Drainage Layout

1.0 Introduction

Bristol Waste Company Limited (Bristol Waste) has instructed SLR Consulting Limited (SLR) to prepare an Environmental Permit (EP) application for the Hartcliffe Way Household Reuse and Recycling Centre (HRRC) in Bristol under the Environmental Permitting (England and Wales) Regulations 2016 (as amended).

The location of the site is illustrated on Drawing 001, and the layout on Drawing 002.

This SCR has been prepared in accordance with the Environment Agency's (EA) H5 Guidance Note on SCR¹. The objective of the SCR is to record and describe the condition of the land at the site prior to operation of the facility. The SCR provides a point of reference and baseline environmental data so that when the EP is surrendered it can be demonstrated that there has been no deterioration in the condition of the land as a result of the operations, and ensure that the condition of the land is in a 'satisfactory state' on surrender of the EP.

Sections 1 to 3 of the EA's SCR template have been completed in the preparation of this document, which comprises the following:

- Site details;
- Condition of the land at permit issue;
 - Geology;
 - Hydrogeology;
 - Hydrology;
- Pollution History;
- Evidence of historic contamination; and
- Permitted activities.

Sections 4 to 7 of the SCR template will be maintained during the life of the permit and Sections 8 to 10 will be completed and submitted in support of the application to surrender the EP.

¹ Environment Agency – H5 Site Condition Report – guidance and templates, Version 3.0, April 2013

2.0 Site Condition Report H5 Template

1.0 SITE DETAILS	
Name of the applicant	Bristol Waste Company Limited
Activity address	Hartcliffe Way Depot, 83 Hartcliffe Way, Bedminster, Bristol, BS3 5RN.
National grid reference	ST 58141 69727

Document reference and dates for Site Condition Report at permit application and surrender	Permit Application: September 2021 Site Condition Report, SLR reference: 402.08721.00003/SCR, September 2021
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Document references for site plans (including location and boundaries)	Permit Application: September 2021 Drawing 001 Environmental Permit Boundary Drawing 002 Site Layout, Fire Management and Prevention Drawing 003 Environmental Site Setting Drawing 017 Proposed Drainage Layout
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Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part B2 of the application form, then you should submit the additional plan or plans with this site condition report.

2.0 CONDITION OF THE LAND AT PERMIT ISSUE

Environmental setting including:

- geology
- hydrogeology
- surface waters

Geology

A review of the British Geological Survey (BGS)² map reveals that the site is underlain by a bedrock of Mercia Mudstone Formation with localised Alluvium along the western site boundary.

There are no records of superficial geology recorded at the site.

Hydrogeology

The superficial deposits on the western side of the site are classified by the EA as Secondary A Aquifer. These are described by the EA as “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”. This is associated with the localised Alluvium along the western site boundary.

The majority of the superficial geology beneath the site is classified by the EA as Unproductive Strata.

The bedrock geology is classified as a Secondary (B) Aquifer on the Multi-Agency Information for the Countryside (MAGIC)³ website. These are described by the EA as “predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering”.

The site is not situated within a groundwater source protection zone (SPZ) but does lie within an area known for groundwater vulnerability classified as high with soluble rock risk.

Hydrology

The closest surface water course to the site is Pigeonhouse Stream, which runs adjacent to the western site boundary. The River Malago is located approximately 25m north of the site.

Flooding

EA⁴ mapping indicates that the majority of the site is situated in Flood Zone 1 and is therefore considered to not be at risk of fluvial flooding. Limited areas in the west of the site, adjacent to Pigeonhouse Stream, are located in Flood Zone 2 and 3 and are therefore considered susceptible to fluvial flooding.

² British Geological Survey – Available at: <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>, accessed June 2020

³ Multi-Agency Information for the Countryside – Available at: <http://magic.gov.uk>, accessed June 2020

⁴ Flood Map for Planning – Available at <https://flood-map-for-planning.service.gov.uk/>, accessed June 2020

	<p>Groundwater Flooding</p> <p>The Hartcliffe Way HRRC Geo-environmental Assessment included as Appendix SCR1 states that the majority of the site is not indicated to be at risk of groundwater flooding.</p> <p>In the west of the site there is potential for groundwater flooding to occur locally.</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures 	<p>Onsite Pollution History</p> <p>The site is located in an area of potentially contaminated industrial past land use.</p> <p>The Hartcliffe Way HRRC Geo-environmental Assessment included as Appendix SCR1 details in table 3-1 the site history of the geo-environmental which includes potential onsite sources of contamination including:</p> <ul style="list-style-type: none"> • The western area of the site was terraced between 1960 and 1970 to form a 'Corporation Depot'. Phases of construction are likely to have left some made ground on site. • By 1968 a 'Refuse Incinerator' was added in the north east of the site. • Between 1976 and 1978 a tank is located immediately to the east of the refuse destructor with a further tank located in the south of the site. • The site was previously a Licenced Waste Management Facility leased by Bristol Waste Company from Bristol City Council. • A Registered Waste Transfer Site (EPR/DB3209UJ) has been recorded for the site for the transfer of very small (less than 10,000 tonnes) of road gulley detritus and street sweepings. Polluting wastes are prohibited. The site was owned by Bristol Waste and the EP has recently been surrendered as the area of land is no longer being used for waste operations authorised by the EP. In preparation for the new HRRC proposed for the site, the land has been cleared and remediated ready for the re-development to take place. The work was completed in February 2021.

All of the above represent potentially contaminative former land uses on the site.

Offsite Pollution History

Information included in Appendix SCR1, Table 3-1 details the potential contamination sources in the wider area surrounding the site including:

- Historical landfill associated with the historic clay pits on Vale Lane located 69 metres north west of the site. Household waste was first accepted in 1945 with the closure date unknown.
- An industrial 'Shopfitting Works', in 1948, 100m east of the site.
- A refuse tip containing unknown, potentially contaminative material, was present immediately to the south of the site in 1968. It extends south along the bank of Pigeonhouse Stream.
- Between 1976 and 1978 a large supermarket and 'Works' buildings were present immediately to the north of the site.
- A registered disposal site called Novers Hill Car Spares that operates a car scrapyard is located 130m north east of the site.

All of the above represent potentially contaminative former land uses in the locality of the site.

Historic Mapping

A review of the site history can be found in Section 3.7: Site History of the Geo-environmental assessment in Appendix SCR1. Previous uses of the site and its surrounding area include:

Between 1884 and 1887 the site was situated within a broadly rural area with no notable surrounding developments. Approximately 450m south-east of the site is a quarry with associated lime kilns.

The area surrounding the site becomes progressively more industrial and urban with the introduction of clay pits, brick and tile works. By the 1930s it is surrounded by the urban developments of Bedminster, Knowle West and Headley which eventually become Bedminster Down, Novers Park and Headley Park.

The site remains broadly unchanged until 1960-1970 when the western portion of the site was terraced to

	<p>form a 'Corporation Depot'. By this time Hartcliffe Way had been built to the west of the site.</p> <p>By the late 1960s the depot was extended north east to include a refuse destructor and an electrical substation to the east of this. A refuse tip is located to the south of site.</p> <p>By the 1970s the area immediately north of the site and either side of Hartcliffe Way has become an industrial estate with the clay pits, brick and tile works being replaced by factory buildings, depots and playing fields.</p> <p>The 2019 mapping shows the site to be broadly unchanged, although the refuse destructor has been demolished and the southern bridge over the stream removed. The surrounding area has become increasingly residential.</p>
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>Details included in:</p> <p>Appendix SCR1: Hartcliffe Way HRRC Geo-environmental Assessment, A Report for Bristol Waste Company, Yellow Sub Geo Ltd, (Ref: P19108_R3_Hartcliffe_20.09), September 2019.</p> <p>Appendix SCR2: Contract Completion Report, Hartcliffe Way, Sanctus Limited (Ref: S2775-005 Rev.A), February 2021).</p>
<p>Baseline soil and groundwater reference data</p>	<p>Not Applicable – no baseline data required.</p>
<p>Supporting information</p>	<ul style="list-style-type: none"> • Appendix SCR1: Hartcliffe Way HRRC Geo-environmental Assessment, A Report for Bristol Waste Company, Yellow Sub Geo Ltd, (Ref: P19108_R3_Hartcliffe_20.09), September 2019. • Appendix SCR2: Contract Completion Report, Hartcliffe Way, Sanctus Limited (Ref: S2775-005 Rev.A), February 2021.

3.0 PERMITTED ACTIVITIES

<p>Permitted activities</p>	<p>Household Reuse and Recycling Centre (HRRC)</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents;</p> <p>R4: Recycling/reclamation of metals and metal compounds;</p> <p>R5: Recycling/reclamation of other inorganic materials;</p>
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	<p>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);</p> <p>D9: Physico-chemical treatment not specified elsewhere in Annex I which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12;</p> <p>D14: Repackaging of waste prior to the waste being submitted to any of the operations numbered D1 to D15; and</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced).</p>
<p>Non-permitted activities undertaken</p>	<p>There are no non-permitted activities undertaken on site.</p>
<p>Document references for:</p> <ul style="list-style-type: none"> • Plan showing activity layout; and • Environmental risk assessment. 	<p>Permit Application: September 2021</p> <p>Drawing 001 Environmental Permit Boundary</p> <p>Drawing 002 Site Layout, Fire Management and Prevention</p> <p>Drawing 003 Environmental Site Setting</p> <p>Drawing 017 Proposed Drainage Layout</p> <p>Permit Application, September 2021</p> <p>Environmental Risk Assessment, SLR Reference: 402.08721.00003/ERA, September 2021.</p>

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as ‘dangerous’ under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

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