

Trecatti Landfill Site

Multipurpose Waste Treatment and Remediation Pad

Site Condition Report

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1.0 INTRODUCTION

Biffa Waste Services Limited (Biffa) has retained SLR Consulting Limited (SLR) to prepare an application to;

1. vary Environmental Permit reference EPR/RP3733PC for Trecatti landfill, Merthyr, Wales under The Environmental Permitting (England and Wales) Regulations 2010 (as amended) for the operation of a Waste Treatment and Remediation Facility; and
2. vary the same Permit to add Standard Rules Permit SR2012 No 8 to allow for the operation of a Composting Facility on the Multipurpose Pad.

This Site Condition Report (SCR) provides the baseline conditions for the proposed area associated with the proposed Composting Facility and is provided for information purposes only.

In addition to this Site Condition Report, the following documentation is also submitted in support of the application of a Standard Rule Environmental Permit Application:

- Non Technical Summary;
- Application Forms Parts A, C1 and F1 and supporting documentation;

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 at the time of the permit application. The SCR will provide a point of reference and baseline environmental data so that when the permit is surrendered it can be demonstrated that there has been no deterioration in the condition of the land as a result of the proposed operations, and ensure that the condition of the land is in a 'satisfactory state' on surrender of the permit.

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.

Section 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 permit.

¹ EA Guidance; Site Condition Report – guidance and templates, Version 3, May 2013.

2.0 SITE CONDITION REPORT H5 TEMPLATE

1.0 SITE DETAILS	
Name of the applicant	Biffa Waste Services Limited
Activity address	Trecatti Landfill Fochriw Road Merthyr Tydfil Mid Glamorgan CF48 4AB
National grid reference	SO 08342 07666
Document reference and dates for Site Condition Report at permit application and surrender	407.00034.00461/SCR, July 2015 – for a Standard Rule Environmental Permit application.
Document references for site plans (including location and boundaries)	Drawing 001 – Site Location Plan Drawing 002 – Proposed Site Layout and Boundary Drawing 003 – Proposed Site Drainage

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 A 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	<u>Geology</u> The site has been previously worked, suggesting that much of superficial and bedrock material will have been removed. However, searches conducted on the British Geological Society website (www.bgs.ac.uk, accessed July 2015) indicate the site is situated on bedrock geology consisting of the South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone. Only partial superficial geology results are available however, the site is located within an area of superficial deposits consisting of Till, Devensian - Diamicton. <u>Hydrology and Hydrogeology</u> The nearest watercourse is a tributary to the Rhymney River which flows south-easterly, passing approximately 1km to the north-east of the application site at its closest point. Previous EA (now NRW) mapping classified bedrock at the application site as a 'Secondary A' aquifer which is defined by the EA as '<i>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.</i>' Previous EA (now NRW) mapping classified the application site as not within a Groundwater Source Protection Zone (SPZ). EA (now NRW) mapping (www.maps.environment-agency.gov.uk) indicates that the site does not lie within

	an area subject to flooding.
Pollution history including: • 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	<u>Pollution History</u> The NRW website includes details of pollution incidents on and off site; On site: There have been no on site pollution incidents on record. Off site: Within 1km of the site there have been no recorded pollution incidents. <u>Historical Land-uses</u> On site: Merthyr Tydfil Borough Council commenced landfilling at Trecatti in 1986 and operated the site up until 1992 when the management transferred to Biffa Waste Services Limited. The site was licensed at that time to receive domestic, commercial and industrial wastes including difficult and special wastes. Engineered containment principles were introduced at Trecatti from 1993. The proposed multipurpose pad will be sited on an area of land subject to the permanent deposit of waste. Off site: Within 1km of the site boundary, the area has been developed for housing to the east (Dowlais) and industrial uses to the south (mining operations). The NRW website confirms there are no current or historic landfill sites within 1km. NRW maps indicate there is one site operating with an OPRA (Dowlais Slaughterhouse, Permit reference: EA/EPR/BK1759IE/V004) located approximately 800m to the north of the site. A further site classed as an A20 (salvage) site is located approximately 600m to the north. <i>Registered substance sites</i> Within 1km of the site, there are no registered radioactive substance sites.

	There are no registered chemical substances sites within 1km of the site. All of the above represent sources of potentially contaminative former land uses in the locality of the site.
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	Not applicable – The pad will be sited on an area of land subject to permanent deposit of waste.
Baseline soil and groundwater reference data	Not applicable – The pad will be sited on an area of land subject to permanent deposit of waste.
Supporting information	Not applicable

3.0 Permitted activities	
Permitted activities	Digestate Storage Lagoon R3: Recycling/reclamation of organic substances which are not used as solvents; and R13: Storage of wastes pending the operations numbered R3 and R5.
Non-permitted activities undertaken	Not applicable.
Document references for: - Plan showing activity layout; and - Environmental risk assessment.	Drawing 001: Site Location Plan Drawing 002: Proposed Site Layout and Boundary Drawing 003: Proposed Site Drainage

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 - EPR H1*) 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.

3.0 CLOSURE

This report has been prepared by SLR Consulting Limited with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by agreement with the client. Information reported herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of Biffa Waste Services Limited; no warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the client and others in respect of any matters outside the agreed scope of the work.

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