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Edwin Richards Quarry – Soil Treatment Centre

Site Condition Report

Waste Recycling Group (Central) Limited

Report No. K0182-BLA-R-ENV-00002

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<p>Disclaimer: Please note that this report is based on specific information, instructions, and information from our Client and should not be relied upon by third parties.</p>					

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1 Introduction

1.1 Report Objectives

This Site Condition Report (SCR) has been produced for Waste Recycling Group (Central) Limited (WRG) in support of its Permit Variation Application. The Application proposes the following:

- Allow additional 30,000 tonnes per annum to be accepted at the facility and increase overall throughput to 180,000 tonnes per annum inclusive of either hazardous and/or non-hazardous waste.
- Remove the split of hazardous / non-hazardous waste treated at the facility from 89,998 tpa for hazardous waste and 60,002 tpa for non-hazardous waste to 180,000 tonnes per annum inclusive of either hazardous and/or non-hazardous waste. The amended ratio relates to the list of wastes in Table S2.2 and S2.3 of the permit (physical treatment of wastes and wastes for treatment in the bioremediation process respectively). This will impact the following listed activities:
 - AR1 S5.3A(1)(a)(ii) Physical treatment of hazardous waste
 - AR2 S5.3A(1)(a)(ii) Asbestos removal from soils
 - AR3 S5.4A(1)(a)(ii) Physical treatment of non-hazardous waste
 - AR4 S5.3 A(1)(a)(i) Bioremediation of hazardous waste for disposal
 - AR5 S5.3 A(1)(a)(i) Bioremediation of hazardous waste for recovery
 - AR6 S5.4A(1)(a)(i) Bioremediation of non-hazardous waste for disposal
 - AR7 S5.4A(1)(b)(i) Bioremediation of non-hazardous waste for recovery
- Addition of new soil treatment pad for biological treatment and soil washing.
- Addition of a point source emission to air to Table S3.1 to account for the biofilter from the new bioremediation area.
- Addition of soil washing activity for the soil washing of soils contaminated with heavy metals comprising the following listed activities and waste operations to be subject to the 180,000 tonnes per annum inclusive of either hazardous and/or non-hazardous waste.
 - S5.3 A(1)(a)(ii) – recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment via soil washing
 - S5.3 A(1)(a)(ii) – disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment via soil washing

Associated waste operations will be:

- Treatment of non-hazardous waste soils by soil washing for recovery.
- Amendment to Table S1.1 Activity AR8 regarding the temporary external storage of hazardous soils to increase amount to 20,000 tonnes to include soils contaminated with heavy metals (10,000 tonnes) and activities associated soil washing activity references in the limits of specified activity and waste types.
- Allow the use of a mechanical screener for the pre-screening of soils containing asbestos.

- Remove pre-operational condition 1 as listed in Table S1.3 of the Permit.
- Undertake mechanical screening of non-hazardous soils in the area currently used for storage of non-hazardous soils. It is proposed to use this area for storage and screening of non-hazardous soils. Screening is already regulated under activity reference AR3 physical treatment of non-hazardous waste.
- Amend drawing reference in Table S3.3 of the Permit to remove reference to plan 100993 – Asbestos DWG1 dated January 2018 and replace with reference to an Emissions Monitoring Plan.

This report has been produced in accordance with Environment Agency H5 Site Condition Report Guidance (LIT 8001 Version 3.0 April 2013) using the H5 template¹. In accordance with the guidance Section 4 has been completed. Section 4 applies to existing operational sites and requires changes in activities to be recorded.

¹ [Environmental permitting: H5 Site condition report - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/environmental-permitting-h5-site-condition-report)

2 Application Site Condition Report – Section 4

4.0 Changes to the activity

Have there been any changes to the activity boundary?

No changes to the activity boundary.

Have there been any changes to the permitted activities?

An application to vary the Soil Treatment Centre (STC) Environmental Permit to include the following changes to the permitted activities:

- Allow additional 30,000 tonnes per annum to be accepted at the facility and increase overall throughput to 180,000 tonnes per annum inclusive of either hazardous and/or non-hazardous waste.
- Remove the split of hazardous / non-hazardous waste treated at the facility from 89,998 tpa for hazardous waste and 60,002 tpa for non-hazardous waste to 180,000 tonnes per annum inclusive of either hazardous and/or non-hazardous waste. The amended ratio relates to the list of wastes in Table S2.2 and S2.3 of the permit (physical treatment of wastes and wastes for treatment in the bioremediation process respectively). This will impact the following listed activities:
 - AR1 S5.3A(1)(a)(ii) Physical treatment of hazardous waste
 - AR2 S5.3A(1)(a)(ii) Asbestos removal from soils
 - AR3 S5.4A(1)(a)(ii) Physical treatment of non-hazardous waste
 - AR4 S5.3 A(1)(a)(i) Bioremediation of hazardous waste for disposal
 - AR5 S5.3 A(1)(a)(i) Bioremediation of hazardous waste for recovery
 - AR6 S5.4A(1)(a)(i) Bioremediation of non-hazardous waste for disposal
 - AR7 S5.4A(1)(b)(i) Bioremediation of non-hazardous waste for recovery
- Addition of new soil treatment pad for biological treatment and soil washing.
- Addition of a point source emission to air to Table S3.1 to account for the biofilter from the new soil treatment area.
- Addition of soil washing activity for the soil washing of soils contaminated with heavy metals comprising the following listed activities and waste operations to be subject to the 180,000 tonnes per annum inclusive of either hazardous and/or non-hazardous waste.
 - S5.3 A(1)(a)(ii) – recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment via soil washing
 - S5.3 A(1)(a)(ii) – disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment via soil washing

Associated waste operations will be:

- Treatment of non-hazardous waste soils by soil washing for recovery.
- Amendment to Table S1.1 Activity AR8 regarding the temporary external storage of hazardous soils to increase amount to 20,000 tonnes to include soils contaminated with heavy metals (10,000 tonnes) and activities associated soil washing activity references in the limits of specified activity and waste types.
- Allow the use of a mechanical screener for the pre-screening of soils containing asbestos.

- Remove pre-operational condition 1 as listed in Table S1.3 of the Permit.
- Undertake mechanical screening of non-hazardous soils in the area currently used for storage of non-hazardous soils. It is proposed to use this area for storage and screening of non-hazardous soils. Screening is already regulated under activity reference AR3 physical treatment of non-hazardous waste.
- Amend drawing reference in Table S3.3 of the Permit to remove reference to plan 100993 –Asbestos DWG1 dated January 2018 and replace with reference to an Emissions Monitoring Plan.

The proposed changes to the Permit at the Soil Treatment Centre (STC) better reflect current market conditions and reflect the activities permitted by the extant planning permission.

The Operator proposes to add a new soil treatment area. The new soil treatment area will be able to treat 30,000 tonnes at any one time either via bioremediation or soil washing dependent on the contract and treatment options required. Soil will be treated on an impermeable surface with sealed drainage. The proposed layout is shown on the Site Layout Plan. The bioremediation operations proposed for the new soil treatment area are identical to those already approved at the Site through existing planning consents and an environmental permit.

The bioremediation pad will also be utilised for the soil washing activity, contract dependent. The soil washing activity will comprise the potential treatment of up to 30,000 tonnes per batch. Soils contaminated with heavy metals will be brought in for storage and then treatment in the soil wash plant. The soil wash plant will be located on the new biotreatment pad when required for washing.

Waste accepted at the STC will be treated in accordance with the existing methodology for the biotreatment works and methodology for soil washing as detailed in the accompanying reports (see Technical Standards Doc ref: 4232/R/002/02 and revised Technical Standards Report K0182-BLA-R-ENV-00004).

Process water from the soil washing process will be recirculated as the process is a net user of water. However limited amounts of process water may require discharging from site. Any process water will be treated via flocculation prior to discharge and discharged to sewer under trade effluent consent.

Storage of soils awaiting soil washing will be on an impermeable pad with sealed drainage currently utilised for the storage of soils containing asbestos only.

The Operator proposes to add a point source emission to air to Table S3.1 to account for the biofilter from the new soil treatment area. Monitoring of the new biofilter will be undertaken in accordance with the monitoring requirements to be included in Table S3.1 and Emissions Management and Monitoring Plan.

The application proposes to pre-screen the soils containing bound asbestos debris. This will be undertaken within the existing Soil Treatment Building. All soils containing asbestos accepted on site will be pre-screened within the building to allow the removal of oversized fractions which have the potential to damage the picking station and fines

	<p>that can conceal smaller bound asbestos debris prior to further treatment on the picking station.</p>
<p>Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?</p>	<p>No 'dangerous substances' are proposed to be used or produced as a result of the permitted activities, except those present in the soils accepted for treatment as previous.</p>
<p>Checklist of supporting information</p>	<ul style="list-style-type: none"> • Application Report (K0182-BLA-R-ENV-00001) • Environmental Risk Assessment (K0182-BLA-R-ENV-00003) • Technical Standards (K0182-BLA-R-ENV-00004) • Fugitive Emissions Management Plan(K0182-BLA-R-ENV-00005) • Odour Management Plan (K0182-BLA-R-ENV-00006) • Noise and Vibration Management Plan (K0182-BLA-R-ENV-00007)

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