

# FACTORY ROAD RECYCLING FACILITY

**Environmental Permit Application**

**Non-Technical Summary**

Prepared for: Holystone Group Limited  
Environmental Permit Ref: EPR/LB3209TU/A001

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Drawing 004: Environmental Site Setting – Cultural and Natural Heritage

## 1.0 Introduction

Holystone Group Limited has retained SLR Consulting Limited (SLR) to prepare an environmental permit (EP) application for the Factory Road Recycling Facility, in Blaydon, NE21 5RU, under the Environmental Permitting (England and Wales) Regulations (as amended) 2016.

This document provides a Non-Technical Summary (NTS) of the proposed operations on site, including:

- An explanation of what is being applied for;
- A summary of the regulated facilities; and
- A summary of the key technical standards and control measures relating to the proposed changes.

To support this EP application, the following documentation is submitted in addition to this Non-Technical Summary:

- Environment Agency (EA) Application Forms, Parts A, B2, B4 and F1 and associated appendices, including a summary of the Environmental Management System (EMS), List of Directors and WAMITAB/Operator Competence Certificates;
- Environmental Risk Assessment;
- Site Condition Report;
- Operating Techniques;
- A Dust and Emissions Management Plan; and
- Drawings.

### 1.1 Basic Pre-Application Advice

The Environment Agency's (EA) basic pre-application advice was applied for on 3<sup>rd</sup> May 2022. A response was received on 5<sup>th</sup> May 2022 which provided general advice around the contents of the application and the associated EA fee.

### 1.2 The Site

The site lies within the town of Blaydon, which lies within the Metropolitan Borough of Gateshead, Tyne and Wear. The site lies adjacent to the River Tyne along the north western boundary and south west of the city centre of Newcastle-upon-Tyne in a predominately industrial area. The National Grid Reference (NGR) for the site is NZ 18905 63744 and the site location is illustrated on Drawing 001.

There are no residential dwellings located within 500m of the site with the closest properties lying 520m to the south west along East View Rd. The site is accessed off Shibdon Road located 480m to the south west, which is shared with various other businesses within the industrial/ residential area.

The site lies within 11m of the River Tyne which is classified as Local Wildlife Site (LWS) along the north western site boundary.

Shibdon Pond which is designated as a Site of Special Scientific Interest (SSSI) is located approximately 760m to the south east of the site's boundary.

The address for the site is: Factory Road Recycling Facility, Factory Rd, Blaydon, Tyne & Wear, NE21 5RU.

Surrounding land-use, receptors and cultural and natural heritage are identified on Drawing 003 and Drawing 004.

## 2.0 Proposed Activities

### 2.1 Soil Washing Treatment Operation

The washing plant will treat wastes by **sorting, crushing, screening, washing and separating** the material into different size fractions suitable for use as recycled aggregate, sand or soils. The process will also remove metal, wood and residual organics. A detailed drawing of the soil washing plant is included as Drawing AER19-0238-00.

Waste materials will be fed into a scalping unit to remove excess oversized material (which will be subsequently crushed) before passing into the washing equipment. A magnet will extract ferrous metals before the material enters the wash plant. The unit will screen 50mm and oversize material for subsequent crushing, with the remaining material passing through the unit, designated for attrition, to remove adherent clays and sizing. The unit will include a floatation stage to remove silt/clay and lighter density contaminants (e.g. wood, plastic) to produce clean, organic free aggregates.

Wash water from the unit will be collected and returned through the process to recover fines. Hydrocyclones will be used to separate coarse and fine sand fractions which are dewatered to provide clean and ready-to-handle materials for stockpiling.

Dirty water from the hydrocyclones will be treated in the integral water management system where a flocculant will be used to coagulate suspended solids in a thickener. The thickened mud will then be screened and dewatered in a filter press. The resulting filter cake will be stored in a bay directly below the plate filter press. The filter cake will be removed from the bay on a daily basis and no material will be left in the bay overnight or over a weekend. The filter cake will be tested and classified to determine the possible outlets for the material offsite.

Process water will be recycled and transferred to a storage tank for re-use in the process. The process is capable of recycling 90% of the input water and there will be no effluent produced from the process.

### 2.2 Waste Operation

The recycling facility treatment process will be covered in the EP as a waste activity. The facility will screen, wash and separate material into different size fractions suitable for use as recycled aggregate, sand or soils.

The activities that will be carried out at the site as defined under Annex II of the Waste Framework Directive can be summarised as follows:

- **R3:** Recycling/reclamation of organic substances which are not used as solvents;
- **R5:** Recycling/reclamation of other inorganic materials; and
- **R13:** Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where is produced).

### 2.3 Waste Types and Storage

The site will accept up to 135,000 tonnes per annum (tpa) of soils for treatment.

The total storage capacity of waste on site will be 5,000 tonnes at any one time.

Wastes will be stored as illustrated on Drawing 002. As materials are processed through the plant, different stockpiles of material will be generated based on the particle size.

**Table 2-1  
 Waste Types for Acceptance**

Waste Code	Description
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01 07	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 05	Soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 04	soil and stones other than those mentioned in 17 05 03
17 09	Other construction and demolition wastes
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 12	Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 09	minerals (for example sand, stones)
19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13	Wastes from soil and groundwater remediation
19 13 02	solid wastes from soil remediation other than those mentioned in 19 13 01
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 02	Garden and park wastes (including cemetery waste)
20 02 02	soil and stones
20 03	Other municipal wastes
20 03 03	Street-cleaning residues

## 3.0 Application Contents

### 3.1 Application Forms

Parts A, B2, B4 and F1 of the EA's EP application forms have been completed in support of this application and are enclosed as Section 2 of this EP application. The application forms also require the following additional information, which has been included:

- Appendix A: List of Directors; and
- Appendix B: WAMITAB and Certificates of Continuing Technical Competence.

#### 3.1.1 Application Fee

Under the EA's Environmental Permitting (England) Charging Scheme 2022, the fee for a bespoke permit application for the 'Physical and chemical treatment of waste' is as follows:

- Physical and chemical treatment of waste (1.16.14 of the Charging Scheme): £7,930;
- Dust and Emissions Management Plan (Reference 1.19.5): £1,241; and
- Habitats assessment (Reference 1.19.2): £779.

Therefore, the total application fee will be £9,950.

### 3.2 Environmental Risk Assessment

The Environmental Risk Assessment has been produced to assess the environmental risk posed by the proposed activities on site.

Strict operational procedures will be implemented at the site to monitor and manage amenity risks from the activities and include provision for the monitoring of scavenging birds, vermin, insects and litter, mud on road, odour, dust and noise. The impact of the proposed activities is assessed in the ERA. Potential receptors are illustrated on Drawing 003.

Subject to the implementation of the stated management measures, the conclusion has been reached that the proposed activities are unlikely to result in a significant accident risk or risk to the amenity of the local environment.

The ERA (reference 416.04370.00014/ERA) is enclosed as Section 3 of this EP application.

### 3.3 Site Condition Report

A Site Condition Report has been prepared as part of this application to establish the baseline environmental conditions within the proposed EP boundary. The SCR has been prepared in accordance with EA guidance H5 (version 3), April 2013.

The facility will continue to operate with due regard to the conditions of the EP and all relevant environmental legislation to ensure that the site does not pose a significant risk to the surrounding human and natural environment.

The SCR (reference 416.04370.00014/SCR) is enclosed as Section 4 of this EP Application.

### 3.4 Operating Techniques and Management System

The facility will be managed in accordance with the Operating Techniques (OT) and Management System document which details the management measures that will be implemented on site to minimise the risk of accidents or emissions that could impact workers and local receptors.

The document includes the detailed process description and relevant roles and responsibilities to ensure the safe and effective management of the site to keep it in compliance with the EP.

The document includes the following information:

- Management;
- Site operations;
- Process Controls;
- Emissions; and
- Information.

Operational management procedures will ensure that:

- The risks that the activities pose to the environment are identified;
- The measures that are required to minimise the risks are identified;
- The activities are managed in accordance with the management system and the OT;
- Performance against the management system is audited at regular intervals; and
- The EP is complied with.

The OT document (reference 416.08484.00004/OT) is enclosed as Section 5 of this EP application.

### 3.5 Dust and Emissions Management Plan

A Dust and Emissions Management Plan (DEMP) has been created which will be implemented under the control of site management.

The DEMP includes a review of the site's location, potentially sensitive receptors and local wind speed and direction data. The sources of dust associated with the proposed operations on site have been considered and appropriate techniques for monitoring, management and mitigation will be in place.

Subject to the implementation of the stated management measures, the conclusion has been reached that the proposed activities are unlikely to result in a significant risk of dust emissions that would affect the amenity of the local environment.

The DEMP (reference 416.08484.00004/DEMP) is enclosed as Section 6 of this EP application

### 3.6 Drawings

A suite of drawings has been produced to detail all characteristics of the site relevant to the application and are enclosed as Section 7 of this EP application. The full list of drawings produced is as follows:

- Drawing 001: Environmental Permit Boundary
- Drawing 002: Site Layout
- Drawing 003: Environmental Site Setting – Local Receptors
- Drawing 004: Environmental Site Setting – Cultural and Natural



- Drawing AER19-0238-00: C&D Plan

## 4.0 Technical Standard and Control Measures

The key technical standards laid out in the following documents govern the design and operation of the site:

- The Environmental Permitting (England and Wales) Regulations 2016 (as amended);
- Developing a management system: environmental permits;
- Controlling and monitor your emissions for an environmental permit;
- Sector Guidance Note S5.06; Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste;
- Non-hazardous and inert waste; appropriate measures for permitted facilities; and
- Relevant EA Guidance e.g. Environmental Risk Assessment's, Site Condition Reports etc.

The control measures relevant to the proposed activities are described in the Operating Techniques submitted with this application.

The proposals have been assessed against these standards and are all considered to meet the relevant technical standards.

The overall conclusion is that there is unlikely to be a significant environmental impact as a result of the proposed activities on site.

Holystone are fully committed to ensuring the highest standards are met and will undertake its activities in a manner consistent with best industrial practices and in accordance with the Company's EMS.

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