



# HBP-OD-12 Residues Management Plan

Herriard Bio Power Ltd.

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Produced in conjunction with Earthcare Technical Ltd.

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# 1 Introduction

In accordance with Best Available Techniques (BAT) Reference Document for Waste Treatment, a Residues Management Plan should be part of the Environmental Management System and is a set of measures aiming to:

- minimise the generation of residues arising from the treatment of waste,
- optimise the reuse, regeneration, recycling and/or recovery of energy of the residues, and
- ensure the proper disposal of residues.

The prime function of the Herriard Bio Power Limited Anaerobic Digestion Facility is to manage waste feedstocks in an optimum manner in relation to the waste hierarchy and to recycle waste materials into products.

# 2 Waste Hierarchy



# 3 Review and Improvement

The **Operations and Commercial Assistant** is responsible for reviewing the following Residues Management Plan Table (Table 1 below) annually in line with Document Control Procedure (**HBP-SOP-14**) to identify any changes to the residues and their fate and to identify any opportunities for reduction and improvement of environmental outcomes in line with the waste hierarchy.

The plan will be reviewed more frequently considering any major changes.

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## 4 Residues Management Plan

The residues produced at the Herriard Bio Power Limited (HBP) Anaerobic Digestion Facility including their management in line with the waste hierarchy and areas for potential improvement and future review are detailed in Table 1 below. Any actions for improvement are tracked through review of this plan.

*Table 1: Residues Management Plan*

<b>Residue type</b>	<b>Approximate tonnage / volume per year</b>	<b>Reduction measures</b>	<b>Management in line with waste hierarchy</b>	<b>Potential improvements to be considered in line with waste hierarchy</b>	<b>Person responsible for improvement</b>
<b>Plastics out</b>	1,150 tonnes	Plastic content within waste streams accepted for treatment. Waste with >5% plastic would be rejected.	Recovery (energy from waste)	Recycling is not possible due to potential contamination with animal by-products, material is sent to an energy from waste facility. No further improvements currently feasible.	Not applicable
<b>Waste oil/lube oil from CHPs</b>	2,500 litres	Changed according to a set schedule as recommended by 2G, alongside assessment of analysis of metal fragments within the oil. Oil only changed if levels reach a level of concern, and the lab has advised for a change.	Recovery	No improvement opportunities foreseen.	Not applicable
<b>General waste</b>	25 tonnes	Encourage less printing and use of electronic documentation across the business	Recycling/recovery	Potential to increase recycling / recovery. Especially food waste via separation at source and energy recovery.	Plant Manager
<b>Scrap metal</b>	5 tonnes	No reduction opportunities foreseen.	Recycling	No improvement opportunities foreseen	Not applicable