

Eurokey Recycling Ltd

Non-Technical Summary

Ref: EK.PT.NTS.2501

January 2025

1.0 NON TECHNICAL SUMMARY

1.1. Introduction

1.1.1. Eurokey Recycling Ltd is seeking a bespoke environmental permit to operate a commercial plastic waste recycling facility at Unit 2, Raven Park, Earlstrees Industrial Estate, Corby, NN17 4DU.

1.1.2. The applicant will accept post-industrial and some post-consumer plastic packaging waste, from supermarkets, or wholesalers, which will be delivered baled. Processing on site will consist of

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

1.1.3. [REDACTED] tonnes per annum, and consists of physical treatment of non-hazardous waste, and the physical and chemical treatment of waste. [REDACTED]

1.1.4. The daily average anticipated throughputs are as follows:

Material Type	Form	Amount (Tonnes Daily)
Plastic	Articulated Lorry Load	[REDACTED]

1.1.5. Pre-application advice, reference EPR/TP3629LR/P001, concluded that a Noise Impact Assessment and Noise Management Plan are not required as part of this application submission.

1.2. Process Description

1.2.1 The site will accept deliveries of waste 24 hours a day, 7 days a week, and the site will be operational to process waste 24 hours a day, 7 days a week. All processing of waste occurs indoors within the building.

1.2.2 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1.2.3 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1.2.4 [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

1.2.5 Local Exhaust Ventilation (LEV) system will comprise of extraction points across the processing lines at specific points to capture dust emissions and heat / water vapour. There will be five point source emissions from the LEV system, releasing filtered air to the atmosphere.

1.2.6 Storage – There are 10 input storage bays, which are capable of storing up to 3,300m³ of waste in total. Inputs comprise plastic waste bales awaiting processing. Silos on the plant provide temporary storage for processed wastes, until they are collected in bulk bags. [REDACTED]

[REDACTED]

transferred to the open plan storage area within the building, as shown on Drawing Ref: 250108E101. All wastes will be stored to give the minimum 6m distance between combustible wastes piles/or separated by firewalls.

1.2.7 Baling - There is a baler on site for the baling of plastics, such as the non-target plastics picked off the picking lines to be later processed.

1.2.8 Waste Water - Up to 95% of the water used in the processing of the plastics is treated and recycled back into the system, requiring only 5% fresh water per hour per line. Waste water not recycled back into the system will be cleaned, and discharge to sewer will amount to 48m³ per day (equivalent to just under 48 tonnes). [REDACTED] will be discharged (once consent is obtained) to the Anglian Water sewer. The treatment will involve pumping and screening to a balancing tank, which will be mixed and aerated. Pumps then send the water to the dissolve air flotation plant, where coagulant, pH correction and polymer is added enroute, as required. Solids will be scraped away and pumped to the sludge tank. The sludge is of minimal water content, derived from the water recycling plant, it consists mostly of paper (labels from the plastic packaging). Treated water would be pumped back to the header tank, to be re-used on the wash plant.

1.2.9 There will be a point source emission from the water recycling plant to the foul water sewer. Measures used for monitoring the discharged water will include:

- **Routine Sampling:** Weekly on-site checks for pH and suspended solids, with additional testing as needed.
- **External Laboratory Analysis:** Periodic (monthly/quarterly) UKAS ISO/IEC 17025 certified lab testing.
- **Comprehensive Record-Keeping:** Maintaining thorough and accurate data.
- **Regulatory Reporting:** Submitting required reports to the water company.
- **System Evaluation:** Regular analysis of results and audits of the management system.

1.2.10 All wastes will be stored, treated and handled on an impermeable concrete surface. Externally, the impermeable concrete surface has a sealed drainage system. All surface water run-off from the external areas of the site that are used for waste storage will pass through an interceptor, before entering the foul water sewer.

1.2.11 Hazardous wastes are not accepted on site; therefore, the site contains no higher risk material that needs to be processed within 7 days. Plastic waste will be stored on site for no longer than 3 months – flexibility is enabled within this maximum retention time. The site aims to turnover plastic

waste within a much shorter time period, following a First in First Out system. End of waste outputs will be stored for up to six months.

1.2.12 The potential dust and odour emissions for the site are assessed as being low. The following methods further reduce the risk of airborne dust and odour:

- Daily monitoring
- Bays and containers for separated waste
- Enclosed processing plant systems reduces dust
- A comprehensive Local Exhaust Ventilation (LEV) dust extraction and filtration system is installed within the building
- Impermeable surface, which is suitable for the treatment and storage, is easy to keep clean.

1.3 Overview of Wastes

The EWC codes and R-Codes sought for this permit are listed below. The operations will be subject to the Environmental Permitting Regulations.

European Waste Code (EWC)	Product Description	Destination within Facility	Process
		Industrial Building	
15 01 02	Plastic packaging	Yes	Sorting, processing, and storage
19 12 04	Plastic and rubber disposal	Yes	Sorting, processing, and storage
20 01 39	Plastics	Yes	Sorting, processing, and storage

R/D Codes:

The site will operate under the following recovery and disposal codes:

R/D Code and Description
R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)
R3: Recycling/reclamation of organic substances which are not used as solvents
R4: Recycling/reclamation of metals and metal compounds

D9:	Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12.
D15:	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)