



U M B R E L L A
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Non-Technical Summary

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CIWM

Affiliated Organisation 2022

Together, we stand for a world beyond waste

Site Address:

Vision Recycling U.K. Ltd
Park House Farm,
Lower Hordley,
Ellesmere,
Shropshire,
SY12 9BL



Registered Office:

Offices At Park House Farm,
Lower Hordley,
Ellesmere,
Shropshire,
England,
SY12 9BL

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Drawings

Title	Reference
Permit Boundary	010.1_09_001
Site Plan	010.1_09_004

1 INTRODUCTION

This Non-Technical Summary (NTS) accompanies the application for an bespoke waste installation EPR/CP3046QE at Park House Farm, Lower Hordley, Ellsmere, Shropshire, SY12 9BL. The site location is shown on plan 010.1_09_001.

The site was historically a farm with the previous residence utilising the industrial units and associated buildings as a livery. The site is now to be used as a waste treatment facility to recover, recycle and reduce the disposal of WEEE waste to landfill through a process of reverse manufacturing.

The only waste to be accepted on site is Waste Electrical and Electronic Equipment (WEEE) (televisions, batteries, etc.). The site receives waste via the main entrance located on the western boundary. Waste will be brought in by approved local contractors (registered waste carriers), generally on articulated lorries. A 3.5 tonne box van is stored off-site and used on occasion. The site reverse manufactures WEEE in to its raw component parts for on ward reuse as a raw material elsewhere with minimal disposal.

This document summarises the application for an bespoke waste installations permit allowing for the Waste Electrical and Electronic Equipment (WEEE) hazardous and non-hazardous to be accepted, processed and stored prior to onwards transportation for recovery or final disposal

2 APPLICATION

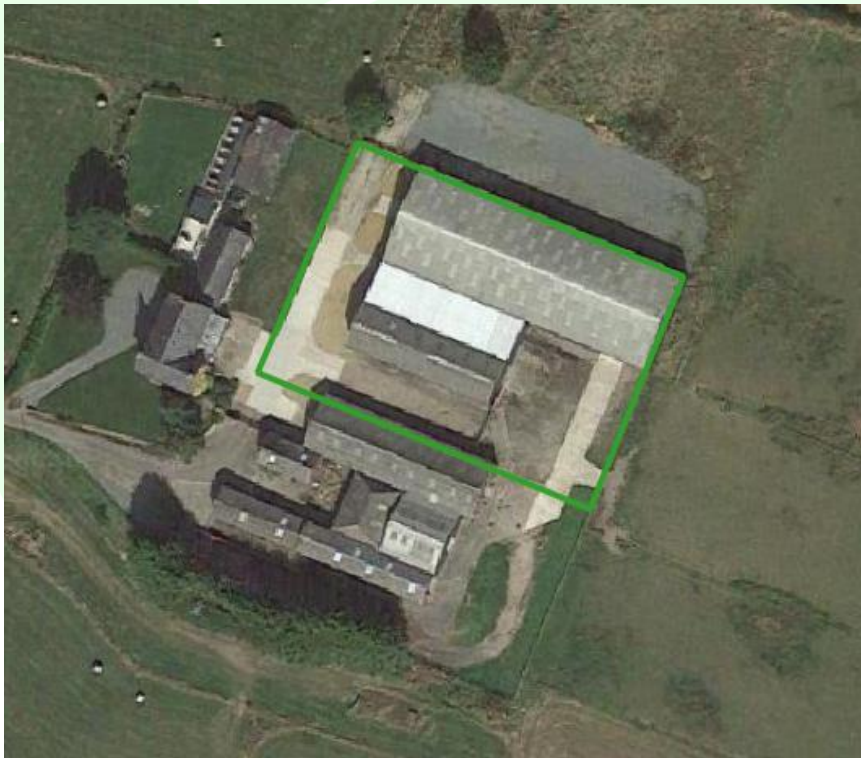
The waste activities on site are based on Standard rules SR2015 No15 Waste electrical and electronic equipment authorised treatment facility (ATF) excluding ozone-depleting substances. The application seeks to increase on the standard rules activity tonnages to 30 tonnes of hazardous waste to be shredded in a 24 hour period, 100 tonne of hazardous waste stored at any one time of which only up to 10 tonnes will go for disposal.

The only waste to be accepted on site is Waste Electrical and Electronic Equipment (WEEE) (televisions, batteries, etc.)

2.1 Site Location

The site is approximately 2238 m² and is located at Park House Farm, Lower Hordley, Ellsmere, Shropshire, SY12 9BL.

Figure 1 Site Location (Aerial Photo)



The National Grid Reference (NGR) is SJ 40170 28568, Eastings and Northings 340170 , 328568 and What Three Words these.tuxedos.loaning.

The site is accessed via a farm road which joins Chapel Lane which joins Shrewsbury Rd/A528.

3 PERMITTED OPERATIONS

Charging References	Activity Reference	Disposal and Recovery Codes
1.16.2.5	Section 5.4 A(1) (a)(v) and/or (b)(iv) - non-hazardous waste installation – treatment in shredders of metal waste, including WEEE and end of life vehicles and their components.	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
1.16.1.2:	Section 5.3 A(1)(a)(ii) -Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment.	R4: Recycling/reclamation of metals and metal compounds R5: Recycling/reclamation of other inorganic materials
1.16.4:	Section 5.6 (A)(1) - temporary or underground storage of hazardous waste.	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)

3.1 Directly Associated Activities

- Storage of non-hazardous waste (any amount) prior to treatment.

3.2 Total Annual Tonnage

The total quantity of waste accepted at the site shall be less than 25,000 tonnes a year of which the total quantity of batteries accepted shall be less than 5,000 tonnes a year.

3.3 Waste Acceptance

Waste accepted at the site is restricted to that described in the List of Wastes, Section 14, 010.1_05_014 of this application pack.

As a minimum, the waste acceptance procedure will include.

- address/location
- identity of the producer
- the physical appearance of the waste
- amount of waste being accepted
- identifiable EWC Code

Site will only accept waste that is permitted and complies. Non-conforming wastes will be rejected or if identified after delivery, isolated and returned to producer.

Incoming waste will be brought to the site by registered waste carriers. Each load would be subject to the waste acceptance procedure and would be inspected by the Technically Competent Manager (TCM) or appropriately trained individual prior to being stored and prior to treatment.

3.4 Waste Storage

Table 1 Total Annual Waste Types table shows the predicted annual tonnage of 6 waste codes at present. A more varied list of waste is being applied for to align with the standard rules permit (SR2015 No15 Waste electrical and electronic equipment authorised treatment facility (ATF) excluding ozone-depleting substances). This also provides the operator with commercial flexibility. The table also shows which waste streams will be shredded and which won't.

Table 1 Total Annual Waste Types

Exclusions Wastes having any of the following characteristics shall not be accepted: <ul style="list-style-type: none"> • Consisting solely or mainly of dusts, powders or loose fibres. 		Tonnes pa	To be Shredded	Not to be Shredded
Waste Code	Description			
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY			
09 01	wastes from the photographic industry			
09 01 11*	single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03			
09 01 12	single-use cameras containing batteries other than those mentioned in 09 01 11			
15	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED			
15 01	packaging (including separately collected municipal packaging waste)			
15 01 06	mixed packaging			
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST			
16 02	wastes from electrical and electronic equipment			
16 02 09*	transformers and capacitors containing PCBs			✓
16 02 10*	discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09			✓
16 02 11*	discarded equipment containing chlorofluorocarbons, hydrochlorofluorocarbons and hydrofluorocarbons			✓
16 02 12*	discarded equipment containing free asbestos			✓
16 02 13*	discarded equipment containing hazardous			✓

	components other than those mentioned in 16 02 09 to 16 02 1			
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02.13			✓
16 02 15*	hazardous components removed from discarded equipment		✓ (POPs Plastics)	
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 1		✓ (POPs Plastics)	
16 06	batteries and accumulator			
16 06 01*	lead batteries			✓
16 06 02*	Ni-Cad batteries			
16 06 03*	mercury-containing batteries			
16 06 04	alkaline batteries (except 16 06 03)			
16 06 05	other batteries and accumulators			
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS			
20 01	separately collected fractions (except 15 01)			
20 01 21*	fluorescent tubes and other mercury-containing waste	100		✓
20 01 23*	discarded equipment containing chlorofluorocarbons	100		✓
20 01 33*	Batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries.	100		✓
20 01 34	Batteries and accumulators other than those mentioned in 20 01 33	100		✓
20 01 35*	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	700	✓	
20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	100	✓	

Table 2 Total Storage at Any One time

Table 2 Total Storage at Any One time Shows when and where hazardous waste is separated and where each load of waste is stored before and after treatment see Site Plan 010.1_09_004.

Waste stream	Location (must match site plan)	Volume / m ³
Pre treated WEEE	1 (All Hazardous)	294
Post treated WEEE	2 (POPs Hazardous)	75
PCB/Plastics	3 (POPs Hazardous)	12
PCB	4(POPs Hazardous)	2
Plastic	5(POPs Hazardous)	
Metal	6 (Non-Hazardous)	35
Non-conforming waste	7 Hazardous or Non Hazardous dependant on waste type)	0.9
General Waste	8 (Non Hazardous not brought to site but produced on site e.g. packaging, debris etc...)	35
Total		456

Figure 2 Process Flow

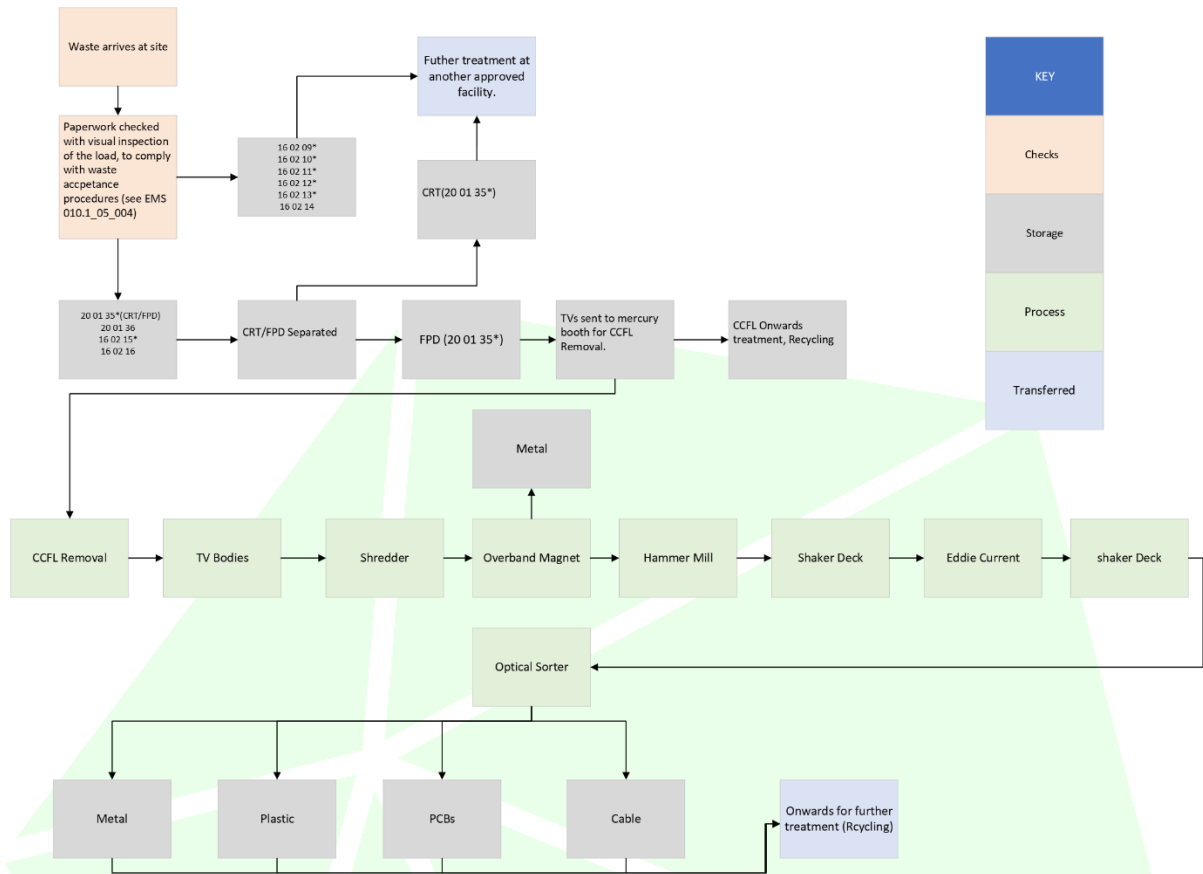


Figure 2 Process Flow above shows the flow of all predicted waste streams however does not contain every waste code being applied for as at present they are not accepted to site. This does not however preclude the fact they will be in the future and will be assessed against the site process as to whether the new waste streams are appropriate for shredding or just bulking for onward treatment.

3.5 Waste Handling and Processing

Normal operating conditions WEEE will be stored on average for 5 days from arrival and processing, to removal from site.

The internal treatment area is surfaced with impermeable reinforced concrete with provision of spillage collection facilities.

Waste will be managed on a 'First In, First Out' (FIFO) basis. WEEE is accepted at the site and stored prior to treatment in accordance with site plan 010.1_09_004. FIFO is enforced, once storage area 1 is full, storage area 2 is filled. The first storage area is processed first. This process is repeated to ensure FIFO is complied with.

All fluids contained within any WEEE shall be removed prior to further treatment.

WEEE will be disassembled by shredding, screening into difference component by shredder and infeed conveyor. Disassembled spare parts and components that may be re-used or may be used to provide spare parts.

Residues from any shredding or granulating operation will be segregated to non-hazardous and hazardous waste.

Metal waste is produced from the treatment process. Metal waste is stored in the external 40yd3 Ro-Ro skip and is turned around every at day and potentially multiple times a day.

All WEEE treatment activities, particularly shredding, will cease 30 minutes to 1 hour before the end of the day. Because shredding can increase the temperature of the waste, before the waste is emptied into the metal skip for storage, the waste will always be monitored with the Thermal Imaging Camera (TIC). Monitoring of the shredded waste with the TIC will be carried out before the waste is moved to the waste storage areas/metal skip.

As a minimum, the substances, preparations and components specified in Table 3 Components to be Removed and Table 4 Separately Collected Fractions below shall be removed from any separately collected WEEE.

Table 3 Components to be Removed

Substances, Preparations & Components to be Removed from Separately Collected WEEE
<ul style="list-style-type: none"> • Capacitors containing Polychlorinated biphenyls (PCB); • Mercury-containing components, such as switches or backlighting lamps; • Batteries; • Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres; • Toner cartridges, liquid and paste, as well as colour toner; • Plastic containing brominated flame retardants; • Asbestos waste and components which contain asbestos; • Cathode Ray Tubes (CRTs); • Hydrofluorocarbons (HFC), or hydrocarbons (HC); • Gas discharge lamps; • Liquid Crystal Displays (LCDs) (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those backlighted with gas discharge lamps; • External electric cables; • Components containing refractory ceramic fibres; • Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and the Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation; and • Electrolytic capacitors containing “substances of concern” (height > 25mm, diameter > 25 mm or proportionately similar volume).

Table 4 Separately Collected Fractions

Component	Specified Treatment

CRTs	The fluorescent coating shall be removed.
Equipment containing hydrofluorocarbons (HFCs) or hydrocarbons such as refrigeration and cooling equipment	The gases must be properly extracted and properly treated
Gas discharge lamps	The mercury shall be removed.

3.6 Site Management

A Technically Competent Manager (TCM) manages the operation and attends site in compliance with the regulatory defined attendance requirement. Individuals such as site supervisors or yard managers can be trained to carry out ongoing site operations, office and plant operations in lieu of the TCM when not in attendance.

During hours of operation there will be a minimum of one member of staff on site, who will be fully conversant with the requirements of the Environmental Permit and the Environmental Management System regarding the following:

- waste acceptance and control procedures
- operational controls and environmental monitoring
- maintenance
- record keeping
- emergency action plans
- Fugitive Emissions

4 RISK ASSESSMENT AND MANAGEMENT

An Environmental Risk Assessment (ERA) (010.1_05_002) is located in section 05 of this application pack. The ERA identifies the sites setting, environmental hazards caused by the waste activity and the operators mitigation methods whether than be hard engineering or managerial procedures. This mitigation is designed to protect the environment from fugitive emissions or point source emissions if stated.

The site is operated by **Vision Recycling U.K. Ltd** An Environmental Management System (EMS) has been created detailing the sites operations and any environmental controls. The EMS explains the sites operations, maintenance procedures and describes the emergency response in the event of an accident and or incident.



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