Non-Technical Summary

TeleCycle Europe Ltd

wiser environment

Helping clients prosper through compliance

SITE DETAILS

TeleCycle Europe Ltd,

Unit 1 Redwither Business Park,

First Avenue,

Wrexham,

LL13 9XP

OPERATOR DETAILS

TeleCycle Europe Ltd,

Unit 15,

Drome Road,

Deeside Industrial Park,

Deeside,

CH5 2NY

APPLICATION REFERENCE

PPN-01526

DOCUMENT REFERENCE

K419.2~09~001

ISSUE DATE

09/02/2026

Wiser Environment Ltd, Suite 11 Manor Mews, Bridge Street, St Ives, PE27 5UW
94 Xuan Thuy, Thao Dien Ward, District 2, Ho Chi Minh City, 713385
+44 1480 462 232 | www.wiserenvironment.co.uk | info@wisergroup.co.uk

DOCUMENT CONTROL

DOCUMENT TITLE:	Non-Technical Summary
REFERENCE:	K419.1~09~001
CLIENT:	TeleCycle Europe Ltd
REPORTED BY:	Wiser Environment Limited
STATUS:	Final
ISSUE:	1
ISSUE DATE:	09/02/2026
AUTHOR:	Wiser Environment Limited
APPROVED BY:	TeleCycle Europe Ltd

REVISION HISTORY

REFERENCE	DATE	ISSUE:	REVISION SUMMARY
K419.2~09~001	28/01/2026	D1	For client review.
K419.2~09~001	02/02/2026	D2	Amendments following client review.
K419.2~09~001	09/02/2026	01	Finalised for submission.

QUALITY CONTROL

ACTION	DATE	NAME
Prepared	28/01/2026	Elliott Howard
Checked	09/02/2026	Andrea Petrolati
Approved	09/02/2026	Andrea Petrolati

CONTENTS

1 INTRODUCTION 6

2 APPLICATION 8

2.1 Site Location 8

2.1 Environmental Settings 9

3 PERMITTED OPERATIONS 11

3.1 Pre-Acceptance Procedure 11

3.2 Reception 12

3.3 Waste Processing 12

3.4 Bulking of WEEE for Dispatch 14

3.5 Metal Wastes 14

3.6 Reuse, Inspection and Testing of WEEE 15

3.7 Site Management 15

4 RISK ASSESSMENT AND MANAGEMENT 16

DRAWINGS

REFERENCE	TITLE
K419.1~20~003	Permit Boundary Plan
K419.1~20~004	Sensitive Receptors Plan (1km)
K419.1~20~005	Site Setting Plan (2km)
K419.1~20~006	Site Layout Plan

FIGURES

FIGURE	TITLE
Figure 1	Aerial view of the site (capture date: 2023)

APPENDICES

FIGURE	TITLE
Appendix A	Sensitive Receptors Table

1 INTRODUCTION

This Non-Technical Summary (NTS) accompanies the application for a Bespoke Environmental Permit for an Installation (Tier 3 Bespoke Installation Permit), as confirmed in the pre-application request (PPN-01526). The site will operate in addition to their already permitted facility at Drome Road (EPR/CB3896ZW).

Operations will fall under:

- Section 5.3 Part A (1) a) (ii) – Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day, physico-chemical treatment;
- Section 5.4 Part A (1) b) (iv) – Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day, treatment in shredders;
- Section 5.6 Part A (1) a) - Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities listed in Sections 5.1, 5.2, 5.3.

Activities will primarily involve the treatment of WEEE, shredding various WEEE products, sorting the subsequent fractions, prior to dispatch to further processing facilities, both domestically and internationally. Material for shredding will primarily be made of low-grade PCBs, modems, PCs, power supplies, power boards and small domestic appliances. Should other materials prove viable for shredding they may serve as input, but all wastes accepted will be in accordance with the List of Wastes (K419.2~09~008).

Site shall also accept copper cable for shredding, then subsequently bulked until an economic load is created for shipment for refining.

Some WEEE will be accepted onto site for bulking prior to dispatch to appropriate re-processors. Site will also operate a manual dismantling operation which will take WEEE items too large or unsafe for shredding and separate into valuable components that can serve as feedstock for the shredder or alternatively mixed with output from the shredding process.

The site is operated by TeleCycle Europe Ltd and is located at Unit 1 Redwither Business Park, First Avenue, Wrexham, LL13 9XP. The location is shown on Permit Boundary Plan (K419.1~20~001) in Section 09 of this application pack.

The national grid reference for the site is SJ 38320 50209.

The site is situated within an established industrial area in Wrexham, situated approximately 4.65 km from the centre. The commercial area includes other recycling and waste related activities. The site is accessed via several local roads; the closest main road is A534 and is situated approximately 1.9 km north of site. Outside of the immediate commercial land use,

the estate is surrounded by agricultural land. For a full breakdown of surrounding land use please see the Sensitive Receptors Plan (K419.2~20~004), the Site Setting Plan (K419.2~09~005) and the Sensitive Receptors table (Appendix A).

The application has been prepared by WISER Environment Limited on behalf of the applicant and operator TeleCycle Europe Ltd.

2 APPLICATION

This application is for a Bespoke Environmental Permit and has been prepared under the Environmental Permitting (England and Wales) Regulations 2016 (as amended) for an Installation undertaking waste operations, to be submitted to Natural Resources Wales (NRW).

A pre-application request was submitted on 7th November 2025, describing operations and confirming the scope of the application (ref PPN-01526).

Activities to be undertaken onsite can be summarised as follows:

- Treatment of WEEE – shredding of WEEE materials, sorting of fractions prior to onward dispatch.
- Bulking of WEEE prior to dispatch elsewhere for further processing
- Bulking of metals – bulked prior to dispatch.

Planned future phase but description included in this application:

- Reuse, Testing and Inspection of WEEE – received as non-waste for testing and inspection, any failed material will be utilised in shredding or bulking processes.
- Acceptance and treatment of catalytic convertors – a replica of activities undertaken at the already permitted Drome Road facility. Catalytic convertors accepted for sorting, separation, storage and shearing.

TeleCycle Europe operates under a certified ISO14001 Management System as well as ISO9001 and ISO45001. They are also members of the Critical Minerals Association and the British Metals Recycling Association.

2.1 Site Location

The national grid reference for the site is SJ 38320 50209.

The site is situated within an established industrial area in Wrexham, situated approximately 4.65 km from the centre. The estate serves as a hub for other waste management activities. The site is accessed via several local roads; the closest main road is A534 and is situated approximately 1.9 km north of site. Outside of the immediate commercial land use, the estate is surrounded by agricultural land.

For a full breakdown of surrounding land use please see the Sensitive Receptors Plan (K419.2~20~004), the Site Setting Plan (K419.2~09~005) and the Sensitive Receptors table (Appendix A).



Figure 1. ***Aerial view of the site (capture date: 2026)***

2.1 Environmental Settings

The environmental setting of the site is summarised in the table below; a more detailed site setting can be found in the *Environmental Risk Assessment* (K419.2~09~003) within this application:

RECEPTOR	DESCRIPTION AND LOCATION
Humans and Property	The site is situated within an established industrial area in Wrexham, situated approximately 4.65 km from the centre. The site is accessed via several local roads; the closest main road is A534 and is situated approximately 1.9 km north of site. Outside of the immediate commercial land use, the estate is surrounded by agricultural land. The closest residential property is Bryn Lane, approximately 650 m from the permitted area.
Surface Water	There are no permanent surface water features within 100 m of the site. The closest named surface water feature is the River Clywedog, located approximately 1.1 km from site.

RECEPTOR	DESCRIPTION AND LOCATION
Groundwater	Site is underlain by a Secondary Undifferentiated aquifer at superficial level, generally designated as both minor and non-aquifer owing to variable characteristics in rock type. At Bedrock level, site is underlain by a Secondary A aquifer. These were generally formerly classified as minor aquifers. The site does not overlie a Groundwater Protection Zone, with only low vulnerability at both bedrock and superficial levels.
Designated Sites	There are no European Sites or Ramsar Sites within 2 km of the site. Some non-designated areas are present consisting of Ancient Woodlands, the closest approx. 500 m.
Geology	The site is underlain by the Salop Formation, a form of Mudstone from the Cisuralian Epoch. The superficial deposits underlying the site are Till – Diamicton.
Flooding	The RoFRaS is classed as very low Risk less than 0.1% chance each year (less than 1 in 1000 chance in any given year). The risk of flooding from surface water and small watercourses is assessed at low-risk, between 0.1% and 1% chance each year.

3 PERMITTED OPERATIONS

The site will predominantly process WEEE prior to dispatch for recovery in both domestic and international markets. Activities can be divided into the following:

- WEEE Treatment – shredding, corresponding storage
- WEEE Bulking
- Reuse, inspection and testing of WEEE
- Catalytic Convertor Treatment
- Bulking of materials (metals)

The site is operated by TeleCycle Europe Ltd and a Management System has been developed to reflect and control site operations. The Management System defines operational and maintenance procedures and details requirements in the event of an accident or incident.

A Management System Summary (K419.2~09~004) is included in this application pack.

Site operations are presented on the Site Layout Plan (K419.2~20~006).

3.1 Pre-Acceptance Procedure

TeleCycle accepts both hazardous and non-hazardous wastes from within the UK consisting predominantly of WEEE wastes, for treatment and storage. Predominant streams will be copper cables, mixed WEEE containing PCBs, SDA and WEEE with plastic content, copper bearing materials, IT & telecommunications equipment, solar panels and fridges, freezers and TVs and metals. A future intends to accept WEEE materials for assessment for reuse and catalytic convertors for treatment as is undertaken at the Drome Road facility.

The relevant EWC codes are included within the List of Waste (K419.2~09~008).

The waste producer is asked to confirm the type of process where the waste is produced, the expected quantity of waste, and hazards associated with the waste. The information is allocated a unique reference code and retained as a record for a minimum of 3 years.

Waste is delivered to site and relevant accompanying documentation reviewed and an initial visual inspection conducted to ensure that the load conforms with the description on the relevant waste transfer or consignment note.

3.2 Reception

On arrival, vehicle details will be recorded in the site diary or similar document. Waste will only be accepted from companies who have provided a valid waste carrier registration and relevant Waste Transfer or Consignment Note.

All loads will be pre-booked, no ad-hoc deliveries will be accepted. All loads are inspected for non-permitted wastes, quality, and conformance with Environmental Permit requirements. Non-conforming loads are refused entry and details are recorded.

All drivers must be wearing appropriate Personal Protective Equipment (PPE) before beginning the unloading process.

Waste deliveries will be inspected upon arrival and then directed to the appropriate area before unloading.

The site is operated in accordance with written procedures incorporated within the TeleCycle Management System.

All procedures include written instruction on how to undertake tasks, equipment involved, PPE/safety equipment required and potential hazards. Each procedure is accompanied by an activity risk assessment.

3.3 Waste Processing

3.3.1 Shredding of WEEE

Treatment of WEEE and associated storage represents the primary operation of the site, as shredded waste electrical and electronic equipment will be dispatched to both domestic and international markets for recycling.

Dedicated equipment for the shredding of WEEE will be installed for the purpose of shredding WEEE into specific size fractions. These WEEE wastes are likely to include:

- Solar panel film
- Copper wire/cable
- Modems
- PCs
- Power Supplies
- Power Boards
- Small domestic appliances

Should other waste types outside of those listed above prove viable for input into the shredding process this may be undertaken, but no wastes shall be accepted that are not in accordance with the EWC codes listed in the Environmental Permit.

Current estimations of output from the shredding process stand at 4-5 tonnes per hour with an approximation of 500 tonnes per month across operational hours. The process shall be undertaken with full dust extraction, with dust collected in bulk bags prior to dispatch to a suitably permitted facility. Changes to hours of operation in future will be in accordance with the approved planning permission.

WEEE shall be loaded into the hopper before moving through an initial two shaft shredder and a further four shaft shredder, before moving through several phases of magnetic separation, and a vibrating screen to separate particulates into appropriate fractions namely aluminium, copper, plastic and other lightweight material discharge.

Shredded WEEE waste shall be bulked and stored in designated areas until an economic load is achieved, prior to dispatch.

3.3.2 Shearing of catalytic converters

This is intended as a future phase of operations, not undertaken from the outset.

The catalytic converters are received already separated from the rest of the exhaust system. Catalytic converters are subject to a hydraulic shearing process to open up the metal casing and extract the ceramic monolith (containing the precious metal catalyst) and the metal or RCF matting which provides thermal insulation and physical support to the ceramic monolith. The equipment is operated under a filtered LEV system to extract and collect any dust/fibres released.

Throughout the hydraulic shearing process, the metal casings, ceramic monolith and RCF matting are retained within the enclosed system with LEV extraction, with direct connection to sealed containers where the components are dropped without the need for any transfer between containers.

Areas of storage and operation shall be indicated as and when activities are to be undertaken.

3.3.3 Removal of Refractory Ceramic Fibre (RCF) matting

Linked to the operation above, these activities are not to be carried out from the outset but are intended as a future phase. They are being included within this application to avoid unnecessary variation to the permit in the immediate future.

RCF is classified as a Category 1B carcinogen, this is the primary reason why mixed or unsorted catalytic converters are now classed as hazardous waste.

The RCF matting is removed during the shearing process and stored in labelled, suitable containers (IBCs, bulk bags) in a designated area prior to disposal to a suitably licensed landfill. This area shall be defined as and when these operations are implemented. All employees potentially exposed to this material are suitably trained and wear the required PPE and/or operate under a LEV system fitted with a filter.

3.3.4 Manual dismantling of WEEE

The manual dismantling of WEEE on site is a simple operation to complement the main shredding operation, to be undertaken on an ad-hoc basis Typical materials for dismantling include:

- Servers, PC's, laptops
- Set top boxes, routers, hubs
- Mobile and fixed telecoms infrastructure
- Solar Panels

Manual dismantling is to be conducted on workbenches with separated materials divided into storage bins. All dismantling will be done with hand tools or battery-charged drivers.

The manual dismantling operation will mainly facilitate those wastes that are deemed too large for mechanical shredding. Initial dismantling will create fractions that can then be input into the shredding process. Those that cannot be shredded will be stored prior to dispatch.

Manual dismantling may also be undertaken where it is assessed to be beneficial to the recovery process over other methods of recovery.

3.4 Bulking of WEEE for Dispatch

Site will receive WEEE for bulking prior to dispatch for further processing at appropriately permitted facilities. The WEEE to be received will take the form of fridges and TV's (both CRT/flat screen) and will be stored in the designated area prior to dispatch to these facilities. These wastes will not undergo any treatment, merely bulked until an economic load is developed.

3.5 Metal Wastes

Non-ferrous metals accepted for storage prior to dispatch to approved sites. Stored loose in external bays subject to fire resistant barriers (see Site Layout Plan, K419.2~09~006).

3.6 Reuse, Inspection and Testing of WEEE

This is intended as a future phase of operations and will not be undertaken from the outset. When implemented, a designated reuse area will be utilised to test WEEE to determine if waste or can be reused. WEEE that does not pass the associated testing will be classified as waste and if appropriate pass through the shredding process.

3.7 Site Management

The site shall be overseen and managed by a Technically Competent Manager (TCM) holding the relevant Operator Competence Certificate qualification, in line with permit requirements. A TCM will be available at all required times during site operation. The TCM will be responsible for the day-to-day operations at the site, and to ensure that site personnel operate the site in compliance with the Environmental Permit. They will be responsible for ensuring adequate training of staff has been undertaken.

The TCM will report any problem, or potential problem, to Senior Management as well as the Natural Resources Wales.

The TCM will attend site in accordance with the attendance criteria specified within 'Environmental Management – Guidance: Legal operator and competence requirements: environmental permits' (updated 11th June 2019)[1].

Future compliance with competency requirements may reside from the Energy & Utility Skills Competence Management System, in lieu of a TCM. As and when this is implemented amendments to the Management System will be made.

[1] https://www.gov.uk/guidance/legal-operator-and-competence-requirements-environmental-permits

4 RISK ASSESSMENT AND MANAGEMENT

An *Environmental Risk Assessment* (K419.2~09~003) is included within the application pack. The risk assessment details the key management measures for the protection of the environment with regards to noise and fugitive emissions (such as dust and particulate matter). Other documents within the application pack support the risk controls outlined within the ERA, namely the MSS and FPMP.

An additional Noise and Vibration Management Plan outlines the conclusions from the Noise Impact Assessment and the risk controls on site used to manage risk posed by noise.

wiser
environment

Helping clients prosper through compliance

Suite 11 Manor Mews, Bridge Street, St Ives, PE27 5UW
01480 462 232 | www.wiserenvironment.co.uk | info@wisergroup.co.uk