



Non-Technical Summary

TeleCycle Europe Ltd



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SITE DETAILS

TeleCycle Europe Ltd
Unit 15 Drome Rd
Deeside Industrial Park,
Sealand Garden City
Flintshire
CH5 2NY

OPERATOR DETAILS

TeleCycle Europe Ltd
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Reading,
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APPLICATION REFERENCE

PAN-018509

DOCUMENT REFERENCE

K419.1~09~001

ISSUE DATE

13/03/2023



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DOCUMENT CONTROL

DOCUMENT TITLE:	Non-Technical Summary
REFERENCE:	K419.1~09~001
CLIENT:	TeleCycle Europe Ltd
REPORTED BY:	Wiser Environment Limited
STATUS:	Final
ISSUE:	03
ISSUE DATE:	13/03/2023
AUTHOR:	Wiser Environment Limited
APPROVED BY:	TeleCycle Europe Ltd

REVISION HISTORY

REFERENCE	DATE	ISSUE:	REVISION SUMMARY
K419.1~09~001	13/05/2022	D1	For client review.
K419.1~09~001	13/05/2022	D2	Following client feedback.
K419.1~09~001	30/06/2022	01	Submitted to NRW
K419.1~09~001	13/01/2023	02	Amendments to documents following NRW comments.
K419.1~09~001	13/03/2023	03	Amendments to documents following NRW comments. Change to throughput

QUALITY CONTROL

ACTION	DATE	NAME
Prepared	07/03/2023	Elliott Howard
Checked	13/03/2023	Charles Thomas
Approved	13/03/2023	Charles Thomas

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DRAWINGS

REFERENCE	TITLE
K419.1~20~001	Permit Boundary Plan
K419.1~20~002	Sensitive Receptors Plan (1km)
K419.1~20~003	Site Setting Plan (2km)
K419.1~20~004	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 a Waste Operation.

The site is operated by TeleCycle Europe Ltd and is located at Unit 15 Drome Rd, Deeside Industrial Park, Sealand Garden City, Flintshire, CH5 2NY. The location is shown on Permit Boundary Plan (K419.1~20~001) in Section 08 of this application pack.

The national grid reference for the site is SJ 33521 70505. It is found some 8 km northwest of Chester and 8 km northeast of the town of Buckley. The site lies in an industrial estate off the A494 a short distance from the England/Wales border; for a full breakdown of surrounding land use please see the Sensitive Receptors Plan (K419.1~20~002), the Site Setting Plan (K419.1~09~003) 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 a Waste Operation to be submitted to Natural Resources Wales (NRW) (REF: PAN-018509).

Permitted activities are restricted to the physical treatment (including temporary storage) of <10 tonnes/day hazardous, and non-hazardous waste consisting of:

- Sorting, dismantling, separation and shearing of catalytic converters (CATs) into different components.
- Sorting, separation and manual dismantling of category 3 and category 4 WEEE into different components for onward transport.
- Storage, sorting and separation of pre-segregated printed circuit boards

All activities support the onward transport, and recovery.

Under the following recovery codes:

- R3: Recycling/reclamation of organic substances which are not used as solvents
- R4: Recycling/reclamation of metals and metal compounds;
- R5: Recycling/reclamation of other inorganic materials
- R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced); and
- D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)

The site is an industrial unit with a relatively small footprint, the waste treatment operations are low throughput and low impact with a total annual throughput of up to 2,499 tonnes of waste, and a maximum waste treatment capacity of 10 tonne in a day.

The annual tonnage of the WEEE manual dismantling is unlikely to exceed 100 tonnes. The manual dismantling of WEEE on site is a simple operation to complement the export of PCBs, operating on an *ad-hoc* basis.

Telecycle Europe operates under a certified ISO14001 Management System and are also members of the British Metals Recycling Association.

2.1 Site Location

The site is located at Unit 15 Drome Rd, Deeside Industrial Park, Sealand Garden City, Flintshire, CH5 2NY. The site, which is approximately 0.07 ha, is centred on National Grid Reference (NGR) 333521, 370505 (SJ 33521 70505). It is found some 8 km northwest of Chester and 8 km northeast of the Town of Buckley.

The site is situated in the Deeside Industrial Park and is surrounded by business properties. The closest residential properties are along Green Lane, Sealand approx. 895 m southeast of the site.

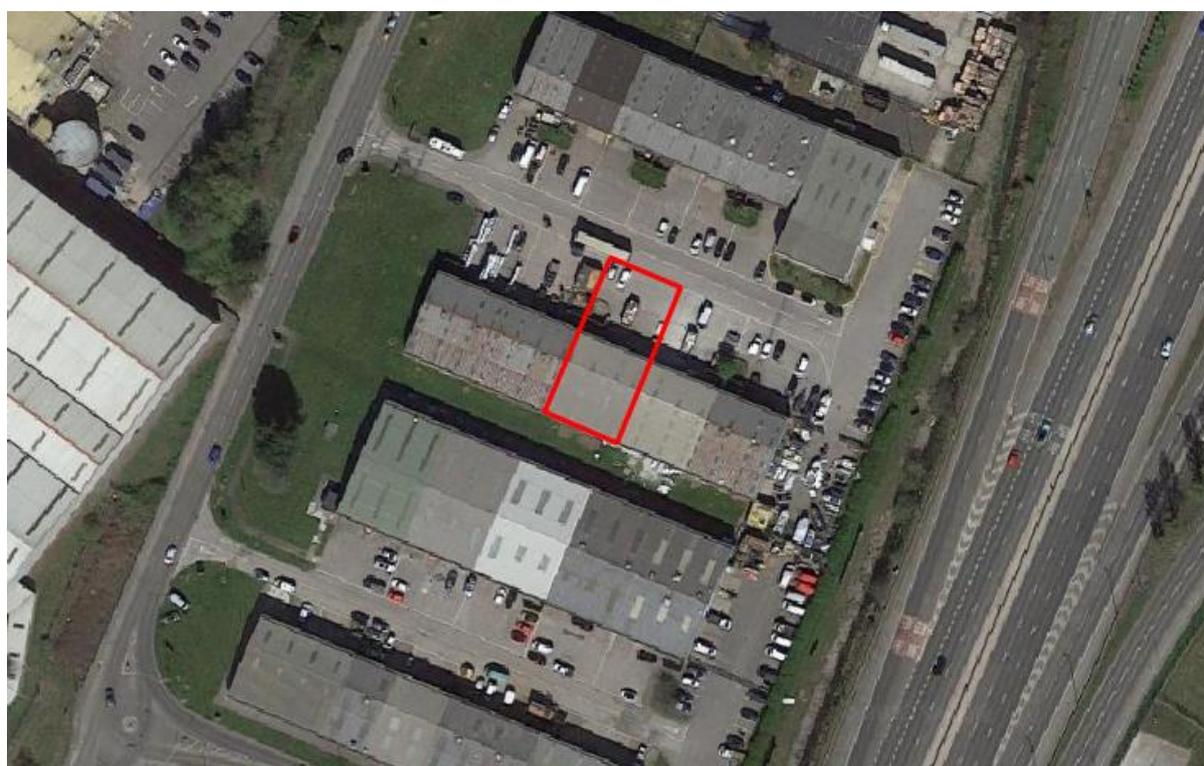


Figure 1. Aerial view of the site (capture date: 2023)

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* (K419.1~09~005) in Section 07 of this application:

RECEPTOR	DESCRIPTION AND LOCATION
Humans and Property	The site is surrounded by other business units with several other companies operating out of the same Industrial Estate.

RECEPTOR	DESCRIPTION AND LOCATION
	<p>The closest sites of permanent residential property are located approx. 895 m southeast of the site.</p>
Surface Water	<p>There are no permanent surface water features within 100 m of the site.</p>
Groundwater	<p>The site does not overlie a Groundwater Protection Zone and is underlain by a 'Principal' aquifer in the bedrock.</p>
Designated Sites	<p>There are no European Sites or Ramsar Sites within 2 km of the site. The closest site protected by statute is the River Dee / Dee Estuary SSSI (approx. 2.1 km) which is designated as 'major wildlife area and one of the most important estuaries in Britain, amongst the most important in Europe for its populations of waders and wildfowl'.</p>
Geology	<p>The site is underlain by the Kinnerton Sandstone Formation - Sandstone formed approximately 247 to 252 million years ago in the Triassic Period. The superficial deposits underlying the site is Tidal Flat Deposits - Clay, Silt and Sand, formed up to 2 million years ago in the Quaternary Period.</p>
Flooding	<p>The site is located within a low flood risk zone from the Sea.</p>

3 PERMITTED OPERATIONS

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* (K419.1~09~004) is included in Section 06 of the application pack.

Site operations are presented on the Site Layout Plan (K419.1~20~004).

3.1 Waste Acceptance

On arrival, vehicle details will be recorded in the load-in report or similar document. The driver must also present copies of the waste carrier's license appertaining to the transport company concerned and the relevant Waste Transfer/Consignment Note.

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 PPE, prior to commencing the unloading process.

Waste loads will be unloaded using a forklift truck or pallet truck. Smaller packaged items may be unloaded manually.

Wastes are stored in individual storage containers. All wastes are accepted as pre-booked orders and are allocated a job number specific to the client and instruction. All wastes are stored and processed as batches, passing through the processes consecutively, which removes the risk of long-term waste storage and ensures turnover of waste.

3.2 Waste Processing

3.2.1 Shearing of catalytic converters

The catalytic converters are received already separated from the rest of the exhaust system. Catalytic converters are subject to an 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 an 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.

Metal casings, ceramic monolith and RCF matting are segregated and stored on the concrete floor in appropriate containers in designated areas within the enclosed building. Only clean, uncontaminated ferrous metal may be stored outside in a enclosed, lockable 8 yrd skip.

3.2.2 Removal of Refractory Ceramic Fibre (RCF) matting

RCF is classified as a Category 1B carcinogen and has properties akin to asbestos, 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 (see Site Layout Plan K419.1~20~004), prior to disposal to a suitably licensed landfill. 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.

3.2.3 Manual dismantling of WEEE

The manual dismantling of WEEE on site is a simple, low scale operation to complement the export of PCBs, operating on a ad-hoc basis. Typical materials for dismantling include:

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

The annual tonnage of the manual dismantling is unlikely to exceed 100 tonnes, to be conducted on two workbenches with separated materials divided into storage bins. All dismantling will be done with hand tools or battery-charged drivers.

3.3 Site Management

The site shall be overseen and managed by a Technically Competent Manager (TCM) holding the relevant Operator Competence Certificate qualification. 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.

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

4 RISK ASSESSMENT AND MANAGEMENT

An *Environmental Risk Assessment* (K419.1~09~005) is included in Section 07 of 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).



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