

**ECOBAT LOGISTICS**

**Crescent Works**

**Willenhall Road**

**Darlaston WS10 8JR**

**Wednesbury , West Midlands**

**Permit EPR/DB3704FG**

**Permit Variation EPR/DB3704FG/V006**

**[ ECOBAT Variation Doc 9 ]**

### **Non-Technical Summary**

The Non-Technical Summary is attached.

WP

20<sup>th</sup> January 2022

**ECOBAT Logistics Ltd**

**G&P House**

**Crescent Works, Willenhall Road**

**Darlaston, Wednesbury WS10 8JR**

**West Midlands**

**[ECOBAT Document 9]**

Non-Technical Summary of Variation

ECOBAT Logistics operation at Darlaston is an operation that receives primarily spent and discarded batteries of various types, sorts the batteries by chemistry and repacks for onward transmission for recycling and recovery of valuable materials or for re-use.

The advances in battery technology have seen changes in the market and an increase in the use of Lithium Ion Batteries (LIBs) for use in electrical appliances and in particular in hybrid and pure electric motor vehicles. ECOBAT are adapting the operations at Darlaston in order to keep pace with these changes in the types of batteries on the market and to continue to recover and recycle as part of the drive to the circular economy.

Lithium Ion Batteries are available as single units or, in the case of electric vehicles, in packs of multiple battery units. ECOBAT dismantle the packs and sort into units that are fit for use and may be recycled and re-used. Units that are not fit for re-use are put into the recovery chain for separation and extraction of valuable materials.

The LIBs unfit for re-use may be unstable in whole form and in order to both render the units safe for further transport and to improve ease of recovery, the Variation proposal is to install a specialised apparatus (the Recupyl machine) that operates under an inert atmosphere and shreds the LIBs into three major outputs.

These outputs are ferrous rich material, 'black mass' rich in Nickel, Cobalt and Lithium and plastic/paper material. These are in a stable form and packaged in separate drums for transport to operations for recover of the valuable components.

The Recupyl Unit will operate under the current well developed ECOBAT systems for management and environmental control. The operation increases the safety and efficiency of recovery and recycling of Lithium Ion Batteries.

No emissions of any significant adverse effects into any compartment of the environment are envisaged from the operation of the Recupyl machine.

Throughputs will remain within current permitted quantities in Permit EPR/DB3704FG.

WP 12<sup>th</sup> January 2022