

Non-Technical Summary

Permit ERP/DB3704FG– Variation V008

This variation is to apply for:

- Consolidation of Standard Rules EPR/DB3704GK & Installation Permit EPR/DB3704FG
- Variation to activity AR4
- Site Permit Boundary
- Variation to DAA AR10
- Increase storage limits.

This variation is to implement a large commercial shredder for lithium batteries. The shredder maximum capacity will be 6tonne per hour input of lithium batteries. There is a weighing system within the first loading zone that will automatically record the weights and alarm when 90%, 95% capacity, with the system to shut down the intake system if reached 100%. The weighing system will be within the initial hopper before the conveyor leading to the primary shredder.

The shredding process consist of two primary shredders, followed by two secondary shredders to reduce the output size for further separations. Shredding process in within a controlled atmosphere (water & nitrogen) / enclosed processing. Following the shredding, the outputs go through a drying auger to allow for vibratory and air separation process for end fractions.

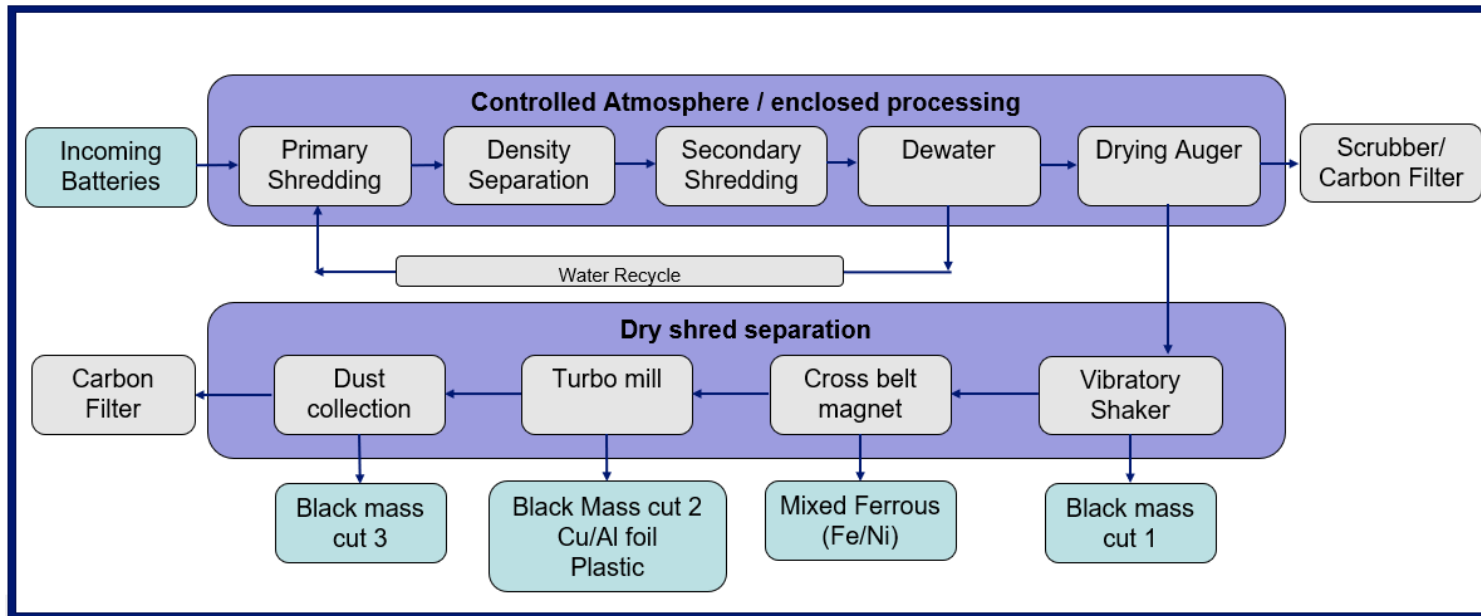
The water is on a recycling loop through the system, only water no other additives. The water following the processing is returned to a tank for solid removal, and settlement (sludge removal) prior to entering the clean water tank to go back through the system (Floc and polymer injections added). Water from the grey water tank will be drained as required and treated on the onsite ETP for discharge to foul sewer. Volume of water to be treated onsite through ETP from grey water tank will be maximum 6cubic meters per day, any additional water required to be removed will be complete by an approved third party and treated offsite, this include scrubber liquor when required. We are permitted for 28cubic meters discharge over a 24hours period, the plant has a pre-determined setpoint of high flow on the outfall flow instrument and HMI screen, in the event of high flow the V notch tank pump down system will activate and return the flow. Current flow rate is 12cubic meters a week.

The nitrogen for fire suppression within the shredding process is generated on site using a membrane system and air compressor.

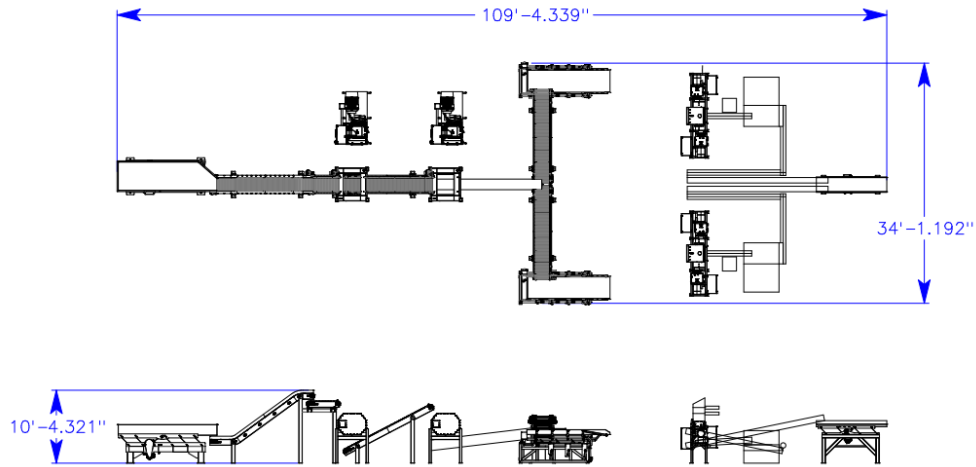
Emissions monitoring has been completed on trail kits within the USA and identified that a wet scrubber followed by carbon filters is the solutions to reducing any environmental impact. All information relating to the trials are included with this application along with recently tested small scale shredder results. Once the plant is installed a full emissions assessment will be completed.

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Noise levels indicated by the manufacturers of the equipment, shows average level to be 70db, with highest at 85Db. Ecobat have a current baseline of background noise and noise levels produced by the manufacturer. A desktop assessment has been completed and has identified sound abatement must be included when refurbishing the building that the plant will be housed in. Once the building has been refurbished with abatement in place, and the plant is installed an in-depth noise assessment including detailed modelling will be completed.



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Maximum storage for the site is currently 2000 tonnes (500 hazardous, 1500 non-hazardous).
This application is to request and increase to 7000 tonnes (2000 hazardous, 5000 non-hazardous)

EWC codes to be added to the permit are listed on tables 1b for forms C3 & C4.

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Site Permit Boundary to be extended.

- Site Boundary
- ETP Foul Water Discharge

