

Summary of storage and handling arrangements for hazardous wastes and batteries

The site accepts a variety of waste which can be split into 4 categories;

1. CAT casings and dusts
2. Batteries
3. Cable
4. Other metals

CAT casings and dusts

CAT casings and dusts are received from permitted sites that pre-treat CATs via de-canning and milling. Milled CATs are delivered to site in sealed steel drums identical to those used on-site for storage of dusts from milled CATs and are stored in the same locations on site.

All hazardous CATs and milled dusts from CATs are stored indoors within the large central building.

Non-hazardous Cats are stored outdoors in Stockpile 2 as shown on drawing 210324BS101. Stockpile 2 has a capacity of 128m³ (8m x 8m x 2m).

Batteries

Batteries (all hazardous lead acid batteries & LiION/NiMH/NiCd batteries) are accepted on site and sorted into chemical types. Lead Acid batteries are stored in battery boxes in stockpiles 6 & 7, as shown on drawing 210324BS101, with a capacity of 60m³ and 160m³ respectively. From here batteries are transferred to the battery treatment plant for processing. Washed dry lead plates are then transferred to stockpile 5 as shown on drawing 210324BS101 which has a capacity of 90m³.

Recovered acid is stored in the two acid tanks, shown as stockpile 3 on drawing 210324BS101. Each tank has a capacity of 25,000l. These are filled sequentially, with each tank being emptied as it reaches capacity. This means that under normal circumstances there will normally be no more than 25,000l of acid on site at any one time.

Other battery types are stored separately from the lead acid batteries in Stockpile 14, one of three secure ISO 20' containers in the external yard.

- 20 01 33* Ni-Cd. For storage smaller Ni-Cd batteries (older power tools, emergency lighting, portable battery operated devices, etc) will be stored in ISO lidded watertight plastic barrels. Terminals will be taped with insulation tape.
- 20 01 34- Lithium Ion Batteries (laptop batteries, modern telephone equipment, power tools, medical equipment, modern portable appliances) will be stored in ISO lidded watertight plastic barrels- Trailing wires will have their ends securely taped with insulation tape- Batteries will be layered with Vermiculite in between layers, to prevent terminals from touching.
- 20 01 34- Lithium Ion Batteries- **EV Vehicle Batteries**- Stored loose in battery plastic boxes within the secure ISO container.

- 20 01 34- Ni-MH- old mobile phones, Older power tools, portable devices- will be stored in ISO lidded watertight plastic barrels- Trailing wires will have their ends securely taped with insulation tape- Batteries will be layered with Vermiculite in between layers, to prevent terminals from touching.
- 20 01 34- Hybrid Batteries- Stored loose in battery plastic boxes in the secure ISO container.
- 16-06-02* ni-cd, 16-06-03* mercury-contain batteries, 16-06-04 Alkaline batteries, 16-06-05 other batteries and accumulators and 16-02-15* hazardous components removed from discard equipment e.g. PCB board from various electronic equipment are all stored separately in plastic battery boxes within warehouse

Cable

Cable is in the form of domestic and commercial C&D cable and wiring looms from ELVS.

Wiring looms and C&D Cable are stored externally in the secure compound in stockpile 10 prior to processing. Cable is then fed into the processing system by a mechanical grab where they are then mixed with talc and dropped into the hoppers of shredders, which are fitted with Filtex dust extraction.

Shredded looms are then fed into a granulator with an overband magnet on the outlet and the product is then fed into a floating tank separator which separates copper from the granulated plastic insulating sheath.

The wet plastic product is stored in battery boxes before removal to storage outside and despatch to a downstream recycler.

The wet, granulated copper is stored internally on racking in 1 tonne bags.

Other metals

The site also receives alloy wheels from ELV depollution and scrap metal sites. These are not processed but are simply stored in stockpile 1 within the main building. There is no processing or repackaging of these wastes.

Stockpile 1 has a capacity of 24m³ equivalent to one Artic load.