

# BAT Assessment:

## Storage For End of Life Lead Acid Batteries & Non Ferrous Metals

### **Overview**

City Batteries Ltd only accepts Lead acid batteries and non ferrous metals onto the site; the lead acid batteries are either consolidated and shipped onto downstream processors or stored for onsite processing. Large industrial lead acid batteries are broken and the lead plates removed these are mainly from large dry cell batteries from UPS sites however large wet cells are also treated on site these are drained and the acid collected before they are broken and the plates removed. The plastic from the batteries which is ABS (fr) is shredded and stored in bulk bags before being sent for onward processing. City Batteries also accepts small quantities of non ferrous metals the Door Trade, this is the general public and small businesses who bring small quantities of non ferrous metals onto site for onward processing these are consolidated and sent on for onward processing metals accepted are copper aluminium and brass.

### **Documents:**

Hazardous waste consignment notes  
Weigh bridge tickets  
Pre acceptance forms  
Non conformance report

### **Off Loading/Waste acceptance:**

City batteries only receive lead acid batteries these are consigned on a hazardous waste consignment note. When the vehicle arrives the load is taken over the weighbridge, this records the date and time along with the weight, the weighbridge ticket is then attached to the consignment note.

All vehicles are supervised on site the site has CCTV coverage which watches movements of vehicles on site. Keys are removed from vehicles before unloading takes place the load is checked before unloading takes place (this is a visual check to confirm the load is lead acid batteries)

The yard is of impervious surface with sealed drainage, once the load has been taken into the reception area the load is checked once more to make sure that the waste matches the consignment note. Non battery waste and liquid waste are not accepted onto site except where it is part of the lead acid battery.

### **Record Keeping:**

All battery loads arriving at City Batteries have been pre-arranged and booked onto site. All customer complete a pre acceptance form confirming the battery chemistry and collection/delivery date, Delivery drivers then pre book off loading times at the site, City Battery vehicles are tracked allowing us to manage their arrival times. Each load on arrival goes into to our reception area where it is checked once more to confirm battery chemistry the pallets are then labelled with the date of arrival along with the EWC code and consignment note number. Although City Batteries has other battery EWC codes on their permit they only accept lead acid batteries for processing, other Chemistries would be quarantined and either returned to the customer or sent onto an appropriate treatment facility this would be reported back to the customer on our non conformance report. Door Trade, City Batteries accepts small quantities of non ferrous metals from domestic users and small businesses. this comes in as "Door trade" the metals are checked and a ticket is issued to the customer. Each Ticket is numbered with a unique number the information recorded on the ticket records the date, time, materials, weight and details of the customer.

Out Bound loads are pre booked in advance this helps us to keep control of stock levels on site, the waste leaving site is consigned on a hazardous waste consignment note, or a duty of care note for non hazardous loads

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### **Storage:**

All batteries are stored on an impermeable surface, and either stored on pallets or if they are wet cell batteries in a leak proof container that are acid resistant. The storage area is laid out in a way to minimise the movement of batteries. The Storage area is clearly marked and signed highlighting the hazard and maximum quantity in each area, the warehouse plan clearly shows the maximum weight in each row and how this is calculated and a copy of the storage plan is displayed in the warehouse. The warehouse has an impermeable floor most of the batteries are dry cell batteries where wet cell batteries are stored additional spillage kits are kept (all spillages are recorded) there is no access to foul water drainage within the warehouse area. Daily checks of the storage area are carried out by the warehouse staff any concerns are reported immediately where a container maybe found to be damaged or leaking the batteries would be quickly transposed in to an appropriate container. The storage area has pedestrian and vehicular access by means of a forklift truck at all times. All waste is stored in such a way that it can be accessed at all times from a pedestrian passage and is accessible with a forklift truck.

An area of the warehouse is marked for the storage of non ferrous metals the rest is clearly marked up for Lead acid batteries, ABS plastic from the battery cases and Lead plates. There is a quarantine area and an emergency storage/off load area which could be used in exceptional circumstances (e.g. vehicle breakdown).

### **Turnover:**

Batteries accepted onto site will pass through the reception area within 24 hours they then are placed in the storage area for reprocessing or consolidation for onward treatment at another facility. City batteries only Treats large industrial batteries on site. All Portable, Automotive and small industrial lead acid batteries are consolidated and shipped out whenever a viable load is accrued this is normally within 2-3 working days.

Hot works are not permitted in the storage area except by prior arrangement this would only in exceptional circumstances for maintenance and repair and would only be carried out by a qualified person.

### **Aged Stock:**

All pallets are clearly marked with the acceptance date on them to allow the monitoring of storage time, it is anticipated that batteries will be on site for no more the 21 working days this allows for onward consolidation and processing this time may extend if there were extenuating circumstances (e.g. Transport issues, breakdown or maintenance at downstream processors etc.) stock is checked on a daily basis older stock goes for processing first.

### **Segregation:**

City batteries only accepts Lead acid batteries these are stored in accordance with SGN S5.06 section 2.1.3 the key areas being, Location, infrastructure, condition of containers, stock control, segregation, site security and fire risk.

All batteries are stored in lines with segregation of 1 meter between each line we also store ABS(fr) plastic from the battery casings that are processed this is stored in the storage area in bulk bags on pallets with a 1 meter gap between the batteries and the plastic. No other waste is accepted into the storage area.

### **Bulk storage vessels:**

City Batteries do not accept liquid waste for bulk storage however acid/aqueous solution (this is acid and wash water from the cleaning of the equipment etc. in the breaking area) from the battery breaking process, this is collected in a underground tank and then pumped into a storage tank the tank is situated on an impervious surface and has secondary containment; the container is specifically manufactured for the storage of acid.

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### **Other storage requirements:**

All batteries, lead plates and plastics are stored on an impermeable surface in our covered storage areas and comply with SGN S5.06 2.1.3

### **Storage of Drummed waste and other containerised waste:**

#### **Storage of Aerosols:**

#### **Storage of Laboratory smalls**

#### **Compatibility testing:**

#### **Transfer from Tankers:**

#### **Bulking into Drums:**

#### **Bulking solid waste:**

#### **Drums and mobile containers:**

#### **Tank & Process Pipe work labelling:**

Not applicable to our operation

City Batteries does not accept or store drummed waste or other waste, they only accept Lead Acid Batteries and Non Ferrous metals, other batteries are quarantined and sent on to appropriate treatment facilities or returned to the customer