

# **Alberts Vervoer & Stene**

## ***ASH SITE INSPECTION REPORT***

**PHYSICAL ADDRESS:**

**Ikangeng St,  
Potchindustria,  
Potchestroom  
2520**



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## 1. Introduction

Ash also known as bottom ash, is a part of the non-combustible residual, formed during the combustion of coal in a coal-fired boiler. As a by-product of coal, it must be removed, managed, and handled safely by ash removers. Ash is however not a hazardous waste and is used in road construction, in noise barriers, as a capping layer on landfill sites and in brick manufacturing.

This inspection report serves as a tool to aid with the safe removal of ash at AES GP sites and to ensure that the ash is removed and used safely. The Gauteng region's Production team conducted a site inspection at Alberts Vervoer & Stene in Potchefstroom, North West Province.

*Alberts Vervoer & Stene* is utilizing the ash for brick manufacturing.

## 2. Inspection Objectives

The following checklist was utilized by the Production team to detect Safety issues with regards to the handling of ash.

- PPE (Personal Protective Equipment) Onsite
- Water usage and run-off
- Air pollution as the result of Ash
- Site accessibility
- Record keeping of block production and ash deliveries
- Delivery / Collection notebook
- Waste transporter certification validation

## 3. Inspection Findings

### 3.1 Personal Protective Equipment (PPE)

Personal protective equipment is used in the process of brick manufacturing to protect the site staff from any injuries or infections as they come in contact with the ash daily. That is also applicable for the driver and his assistant when ash is being collected and offloaded at the designated site.

It was confirmed and witnessed that the site staff were all wearing the correct PPE needed for brickmaking and handling of ash received on-site at Alberts Vervoer & Stene.

The condition of the collection truck used to collect the ash was also inspected and found to be in an acceptable state and the driver thereof was also aware of the PPE requirements of handling the ash during collection and offloading.



*Figure 1: Alberts Vervoer and Stene truck*

### 3.2 Water usage and run

Water is one of the most important raw materials used in the brick making process and conservation of this resource is vital.

At Alberts Vervoer & Stene, make use of borehole water to fill storage tanks. That reduces the municipality's cost of water and saves clean water. The hosepipe is used to get water from the storage tanks to the mix used for brick manufacturing to control the amount of water being used in the brick manufacturing process.



*Fig Figure 2: Water storage*

### 3.3 Air pollution

There is no dust being polluted into the atmosphere as the ash collected still contains some moisture, and that helps prevent air pollution. The bricks are manufactured on top of the wood with no plants nearby, which prevent and manage air and soil pollution.



*Figure 3: Ash storage area*



Figure 4: Bricks that were already manufactured

### 3.4 Waste

There was no waste visible on site as all the raw materials used are recycled. The raw materials include ash, river sand and water.

### 3.5 Site Accessibility

The site is surrounded by a fence all around and only has one entrance and it is controlled.



Figure 5: Entrance sign





Figure 6: Fence

### 3.6 Documentation Control

Alberts Vervoer & Stene does not have brick delivery book or sales book as they are manufacturing bricks to build a milking company in the farms. They have an ash collection book to keep records of the amount of ash collected from site.

Requested	Collection						Driver	
Reference No.	Date	Time	Bin level (%)	Collection Note	Old Bin Number	New Bin Number	Name	Signature
b2	21/2						Etzard	
	21/2							
	1/3							
	1/3							
	2/3							
	3/3							
	3/3							
	03/10							
2	10/1							

**DELIVERY/AFLEWERING** 01

Date Datum 10/03/22

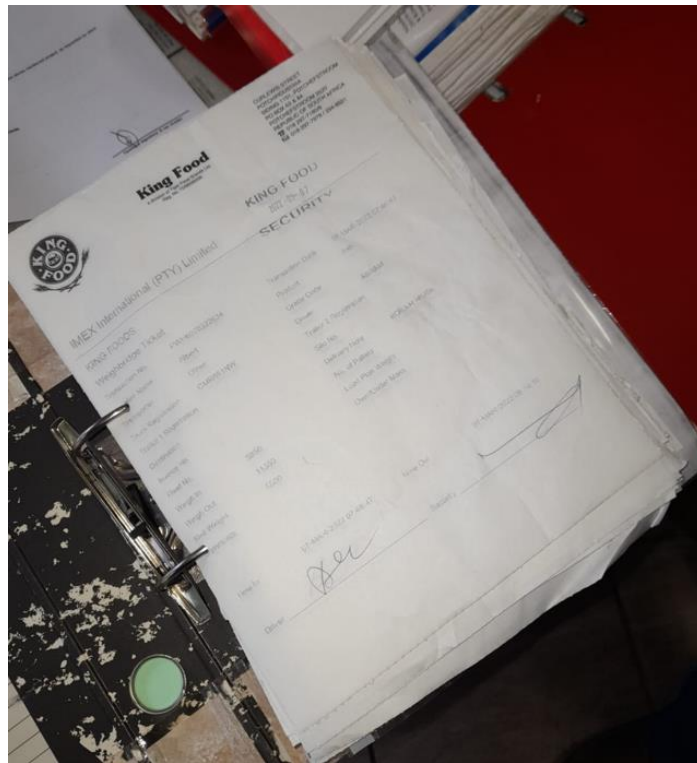
M King food

AS 1/11

*[Signature]*

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Figure 7: Ash collection slip



*Figure 8: Ash collection book*

### 3.7 Ash Audit Inspection Register

The ash audit was conducted on the 08<sup>th</sup> of March 2022 in Potchefstroom. It was conducted during normal working hours. A checklist (figure 9 below) was used as a tool to assist the Production team to conduct it in an orderly manner.



Site Inspection Checklist - Ash Removal



Alberts Vervoer and Stene		Y	N	Comment / Notes
1	Waste transporter certificate from GWIS		X	
	Waste processor certificate from GWIS		X	
2	PPE ( Personal Protective Equipment) Onsite	✓		
3	Water usage and run	✓		
4	Air pollution as the result of Ash	✓		
5	Site accessibility	✓		
6	Record keeping of block production and ash deliveries		X	The Alberts and Vervoer and Stene do not keep record of block production.
7	Signed ash removal cost agreement		X	N/A
8	Site inspection register	✓		
9	Delivery / Collection note book	✓		
10	Inform ash remover to sign AES ash collection register	✓		
11	Take pictures for reporting purposes	✓		
12	Signage received (from AES) and AOR signed.	✓		

Figure 9: Site inspection checklist

### 4. Ash Collection Register

AES GP Sites uses a standardised collection register (figure 10) for companies collecting ash on our sites. This serves to keep track of when ash is collected, the time and the amount of ash collected on sites.

Collection Requested		Collection				Driver		AES Operator				
Date	Time	Reference No.	Date	Time	Bin Level (%)	Collection Note	Old Bin Number	New Bin Number	Name	Signature	Name	Signature

Figure 10: AES Ash collection register template.

Alberts Vervoer & Stene were informed by the Production team that they should ensure that their driver(s) collecting ash on AES GP sites must sign the above register (Figure 9) with each collection at the boiler house.

## 5. Conclusion

The site visit was found to be satisfactory by the Production team and therefore give permission for *Alberts Vervoer & Stene* to collect ash at the AES GP sites assigned to them.

Alberts Vervoer & Stene are doe does not have the waste transporter certificate. The production team will find out if there is any waste transporter certificate that I used in North West Province and recommend *Alberts Vervoer & Stene* to register for it.

## 6. Appendices

### 6.1 Appendix A: Site Inspection Register



07 March 2022

To whom it may concern,

Ref: **Alberts Vervoer & Stene** ash collector site inspection register.

This serves to confirm that the following people (listed below) visited the Plot 14 site where the ash being collected from AES GP sites is being transported to. The site is situated at Maabank, Potchefstroom 2523. The ash on this premises is used for Manufacturing Bricks.

Date	Name	Company	Signature
08/03/2022	Sinethemba Mzokaza	AES	
06/03/2022	Albert Jahn	Alberts Transp	