

2025 Waste Management License and Exclusion Workshop

Protocol on the Management of Infectious
Carcasses and Animal Waste : Dr A M. Kalake

DFFE Pretoria – February 27, 2025



GAUTENG
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

Growing Gauteng Together

Presentation Outline

- Background to the Problem
 - Brief History of Controlled Diseases Outbreaks
 - Basic Determinants of Disease Control Success (ADA)
Legislative Imperatives during disease outbreaks
- Quo Vadis! – 2024 Waste Indaba Resolution
- Status Update on Development of a workable solution – Where are we?
- Straw Document is now available. Please Enrich it
- Conclusion and Recommendation
- Questions and Discussion

Brief History of Recent Outbreaks

- **2017 /2018 (H5N8) Avian Influenza Outbreak:** Backyard flocks, small scale producers, Hobby keepers + Zoos and commercial poultry and Ostrich farms + Wild Birds
- **08/2017 43 outbreaks** had been reported, in GP, MP, KZN, WC and FS
- **Disposal:**
 - Composting of **feed**, birds, eggs and manure on Farm
 - Burial at Platkop Landfill
 - Burial on farm
 - Incineration
 - **Rendering to dog food(Mpumalanga plant approved by DFFE)**



Disease Outbreaks –cont HPAI

- **2019 – 2020 (H5N1) Avian Influenza Outbreak**
 - - GP, NW WC
 - - Commercial, Small scale
- **2023 (H7N6) Avian Influenza Outbreak**
 - - Biggest outbreak to date (>6 M birds died or were culled)
 - - Mainly commercial Egg Laying Operations, **GP**, KZN, FS, WC



Disease Outbreaks cont. ASF

- **Initially State Assumed all responsibility for culling and Disposal.**
- **Disease Control Approach changed, once outbreak became widespread.**
- **Attempts to coordinate collection of carcasses by Local Authorities. Not Successful.**
- **A huge community waste nuisance and outbreak control nightmare**
- **State facilitated access to lime for disinfection**



Disease Outbreaks cont. ASF

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Legislative framework

Animal Diseases Act (Act 35 of 1984)

- Impose Quarantine
- Epidemiologic Investigations
- Ban uncontrolled movements
- Take prophylactic and curative measures
- Depopulate
- **Dispose Appropriately**
- Cleaning and Disinfection

NEMA: Waste Act, (Act 59 of 2008)

- National Norms & Standards for Organic Waste Composting, 2020
 - Defn: Composting, Hazardous and Infectious Organic Waste
 - Apply to organic waste composting facilities with >10T/day capacity
 - (No)need for a waste management licence 3 (4)
 - Construction requirements
 - Disposal of compost as fertiliser 8(6)

Approval Process for Burial at a Landfill

- Brief departmental Waste Director of the need to dispose hazardous biological waste
- Drafting and sending of the request for permission to bury at Platkop or any other facility which can handle infectious waste including rendering plants, to DFFE – Granting of this permission sometimes delayed
- Sending of DFFE approval to responsible municipal waste department and the Management of the Landfill
- Liaising with Platkop (waste disposal facility?)
- Initiate emergency procurement processes for freight logistics and preparation of burial site (trench, liming, burial)
- Culling, Collection and freight of carcasses for burial
 - Best practice is to cull and dispose within 24 Hours!

IT IS NOT AS STRAIGHT FORWARD AS DESCRIBED!!!

2024 Waste Indaba Recommendation on Management of Hazardous Animal Carcasses

Management of infectious waste

- ❖ Develop a protocol to deal with animal carcasses in the event of outbreaks.
- ❖ Advocacy

Purpose of the Proposed Protocol

- a. Provide a uniform national approach regarding the management of infected animal carcasses and animal waste in case of disease outbreak (**ADA List A causative agents**).
- b. To facilitate sound management of infectious animal carcasses and animal waste during infectious diseases outbreaks to protect human health and the environment.
- c. To mitigate the immediate threat of infectious animal carcasses and animal waste to humans and other animals.
- d. To provide minimum requirements for the safe burial of infected animal carcasses and animal waste

Main Provisions of the Proposed Protocol

- Application: Provides for controlled burial of infected animal carcasses
- (Prior) Registration of animal carcasses burial sites
- Location requirements of the burial sites
- Transportation: Transport operator registration and vehicle requirements
- Burial site access control
- Documentation of burial sites operational and management requirements
- Burial site emergency management plan
- Monitoring of site post burial
- Reporting requirements and record keeping
- Prohibitions

Conclusions and Recommendations

- Periodic Outbreaks Major Animal and Poultry diseases are to be expected....though not desirable
- Emergency Disease Control Should not result in Adverse Environmental Consequences
- A protocol jointly developed between DFFE, DALRRD and Some Provincial Veterinary Authorities is now available and needs additional inputs....prior to further consultation with non-governmental stakeholders
- Comments /Inputs should be sent to Mr M. Phaladi at DFFE (mphaladi@dffe.gov.za) by 31/03/2025

Acknowledgements

Officials from DFFE, DALRRD -AH and Gauteng Veterinary Services who contributed to the development of the draft protocol

Gratitude to Dr Adri Grobler for the pictures

The End! El Fin! Se Acabo! Ke Ema Fa!

Thank You for Allowing us to Update you on progress on the development of a protocol for the management of hazardous waste and animal carcasses during outbreaks of controlled diseases

Questions?

Suggestions for Improvement will be much appreciated