



POPs Management LESOTHO

Matšelisio Tšehlo – Moremoholo & Thabiso
Leballo
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Outline

- What are the main sources in Lesotho
 - PCBs inventory in Lesotho
 - Integrated Solid Waste Management study
 - Consequences
 - How can they be controlled
 - What has been done so far
 - Future plans

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Main Sources

- Pesticides
- Transformer oil
- Disposal sites
- Incinerators



PCBs inventory in Lesotho

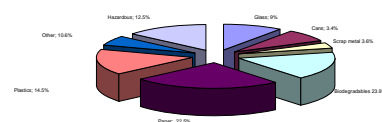
- In 2004 survey
 - 527 transformers inventoried
 - 405 in good conditions
 - 82 leaking
 - 40 inaccessible
 - 30 tested with 2 retested
 - 19 suspected of containing PCBs

Integrated Solid Waste Management study

- Phase 1: Baseline study – completed in 2006
 - Led by Ministry of Environment, with foreign and local consultants
- Phase 2: Development of the ISWM Plan
 - Led by Ministry of Local Government, with UCT team as foreign experts and local experts appointed
 - Completed early 2008
- Phase 3: Implementation
 - To be led by Maseru City Council
 - UNEP/UNDP collaboration to assist with implementation

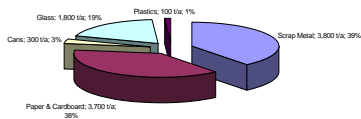
Integrated Solid Waste Management study

- Waste generated in Maseru - 2006



Integrated Solid Waste Management study

Waste recovery by type - Maseru 2006



Development of Integrated Waste Management Plan for Maseru city

Pillar 1: Capacity to Prevent Wasteful Resource Use at Source

- Action 1.1: Integration of waste prevention measures
 - taxes & levies
- Action 1.2: Introduction of cleaner production measures
- Action 1.3: Implementation of a source separation system
- Action 1.4: At source value-addition

Development of Integrated Waste Management Plan for Maseru city

Pillar 2: Strong, Diversified and Appropriate Collection Systems

- Action 2.1: Establishment of ward-specific and material-specific collection systems
- Action 2.2: Systematic infrastructure and route planning
- Action 2.3: Optimisation of collection services offered by Maseru City Council and Private Recyclers and the Public-Private-Partnership for the Urban Environment (PPPUE)

Development of Integrated Waste Management Plan for Maseru city

Pillar 3: A Healthy Recycling Industry

- Action 3.1: Creation of a supportive platform for private recycling enterprises
- Action 3.2: Support for the development of a local recycling economy
- Action 3.3: Regulatory framework to support local recycling markets
- Action 3.4: Coordination of local recycling activities
- Action 3.5: Develop capacity to work with take-back levies

Development of Integrated Waste Management Plan for Maseru city

Pillar 4: An Environmentally Safe Disposal Site for Real Waste

- Action 4.1: Adjustment and integration of planning activities for sanitary landfill site
- Action 4.2: Amendment of EIA regulations
- Action 4.3: Capacity to thermally use non-recyclable paper

Development of Integrated Waste Management Plan for Maseru city

The Platform: Education, built upon real and up-to-date information

- Action 5.1: Use of school infrastructure as awareness creation medium
- Action 5.2: Establishment of waste minimisation clubs
- Action 5.3: Establishment of a waste information system (WIS)
- Action 5.4: Awareness creation through common media
- Action 5.5: Review of this ISWMP on a regular basis

Consequences

- Health impacts assessment carried out in May 2004
 - Low birth weight in new born
 - Miscarriages
 - Eye and Respiratory conditions
- Risk groups include:
 - Residents next to dumpsites
 - Personnel working closely with Transformer oil
 - Abusers of transformer oil
 - Highly populated areas

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Control Measures

- **Advisory committees:** CheMaC, CoWMan etc
- **Current legislature:** Hazardous Chemicals Management Bill, Environment Act 2008, Public Health Order of 1970 etc.
- Public awareness
- Active NGOs: LCN, PELUM,
- **Monitoring Activities by different Government Ministries:** Ministry of Agriculture and Food security, Ministry of Health and Social Welfare, Ministry of Tourism, Environment and Culture etc

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Future Plans and Activities

- SAPP Regional Approach to PCB Management
- Expression of interest in NIPs Program to be submitted to UNEP/UNIDO Program
- Amend all legislation relevant to chemicals management including POPs
- Identification and Management of stockpiles, articles in use and waste
- Identification and Management of all POPs contaminated disposal sites

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Future Plans and Activities

- Public awareness, information and education
- Information sharing amongst all affected and interested parties.
- Development of Plastic Levy
- Establishment of Healthcare Waste Management System for Lesotho (MCA project)
 - Upgrading infrastructure
 - Development of legal instruments

Rea Leboha



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POPs Management Training Workshop