

WASTE KHORO 2019: Asbestos and Land Remediation Summit

18-20 September 2019

"Good Green Deeds towards a Recycling Economy and Sustainable Land Remediation"



TRANSNET

Approach to the management of asbestos roof sheetings in Transnet

Simphiwe Mbuli



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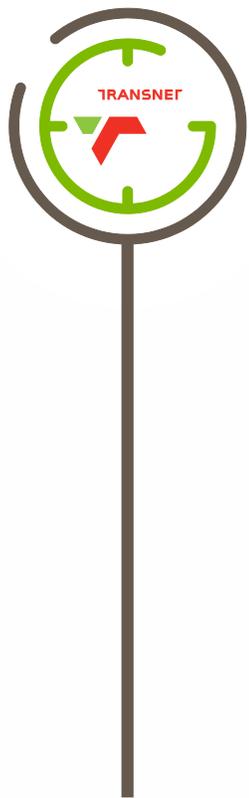
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1. Who is Transnet?

Rail		Ports		Pipelines	Supporting
<p>Transnet Freight Rail (TFR)</p>  <ul style="list-style-type: none"> • 30 400 km of railway track. General freight & 2 heavy haul export lines 	<p>Transnet Engineering (TE)</p>  <ul style="list-style-type: none"> • Support TFR for rolling stock and TPT for lifting-equipment maintenance 	<p>Transnet National Ports Authority (TNPA)</p>  <ul style="list-style-type: none"> • 8 Commercial ports along 2 798 km of coastline 	<p>Transnet Port Terminals (TPT)</p>  <ul style="list-style-type: none"> • 16 Cargo Terminals operating across 7 SA ports 	<p>Transnet Pipelines (TPL)</p>  <ul style="list-style-type: none"> • 3 800 km of pipelines 	<p>Transnet Group Capital Transnet Foundation Transnet Property</p>  <ul style="list-style-type: none"> • Projects execution • CSI • Property Management

Transnet International Holdings is a subsidiary of Transnet SOC Limited. Recently incorporated as a vehicle through which the company participates in international business activities.



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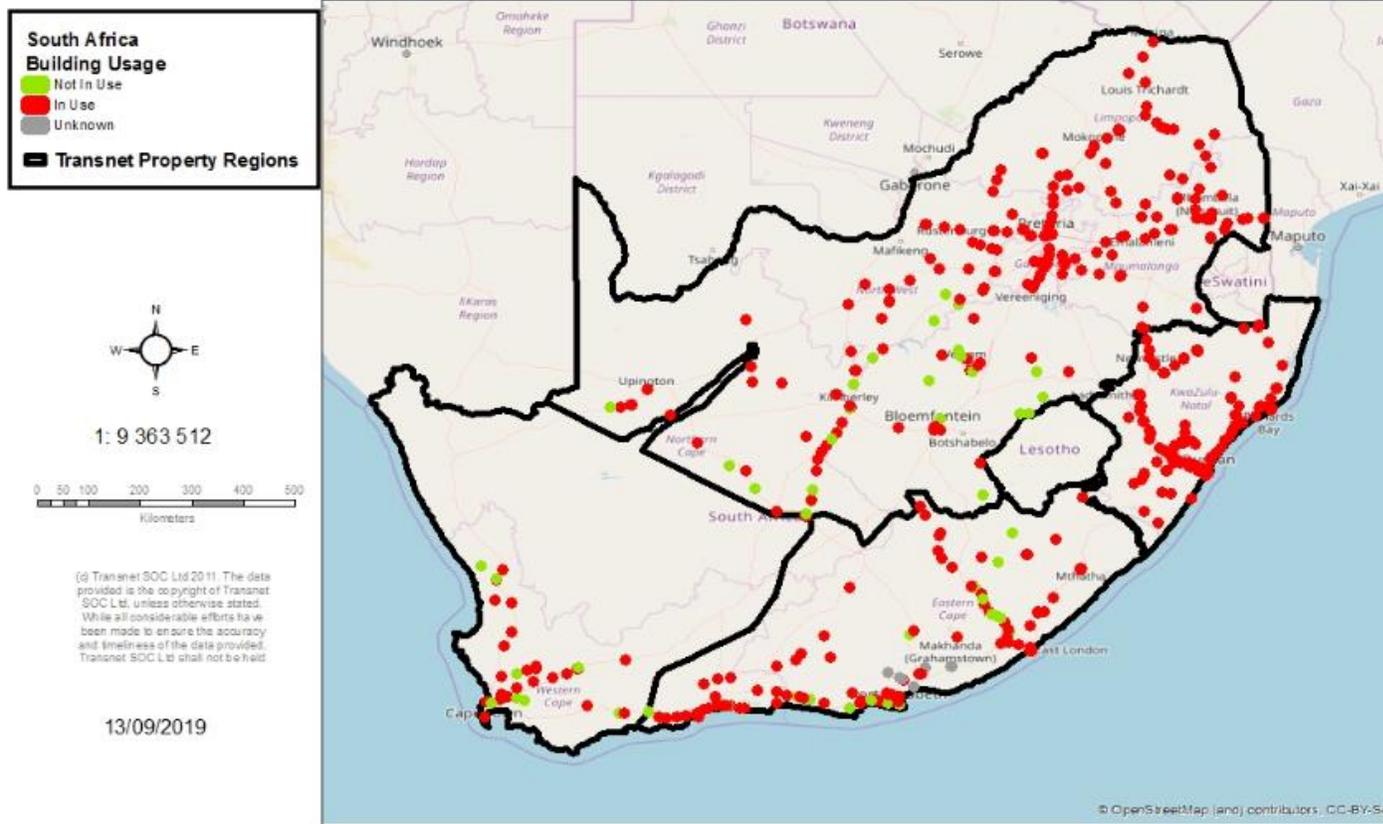


2. Transnet Property Portfolio

TRANSNET ABSESTOS BUILDINGS (South Africa)



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Quick Facts

- 2nd biggest land and property owner after Government
- Property includes:
 - Commercial
 - Residential
 - Offices



3. History of asbestos in Transnet

For many years, asbestos was used in the construction sector as a building material of choice for various purposes. Transnet is no exception and asbestos mainly in our properties was used in the form of:

- Roofs,
- Facias/barge boards,
- Walls/cladding,
- Ceilings
- Down pipes,
- Partitioning,
- Insulation,
- Water/sewer pipes'
- Water tanks,
- Toilet cisterns,
- Sprayed coatings on ceilings, walls and beams/columns
- Vinyl floor tiles

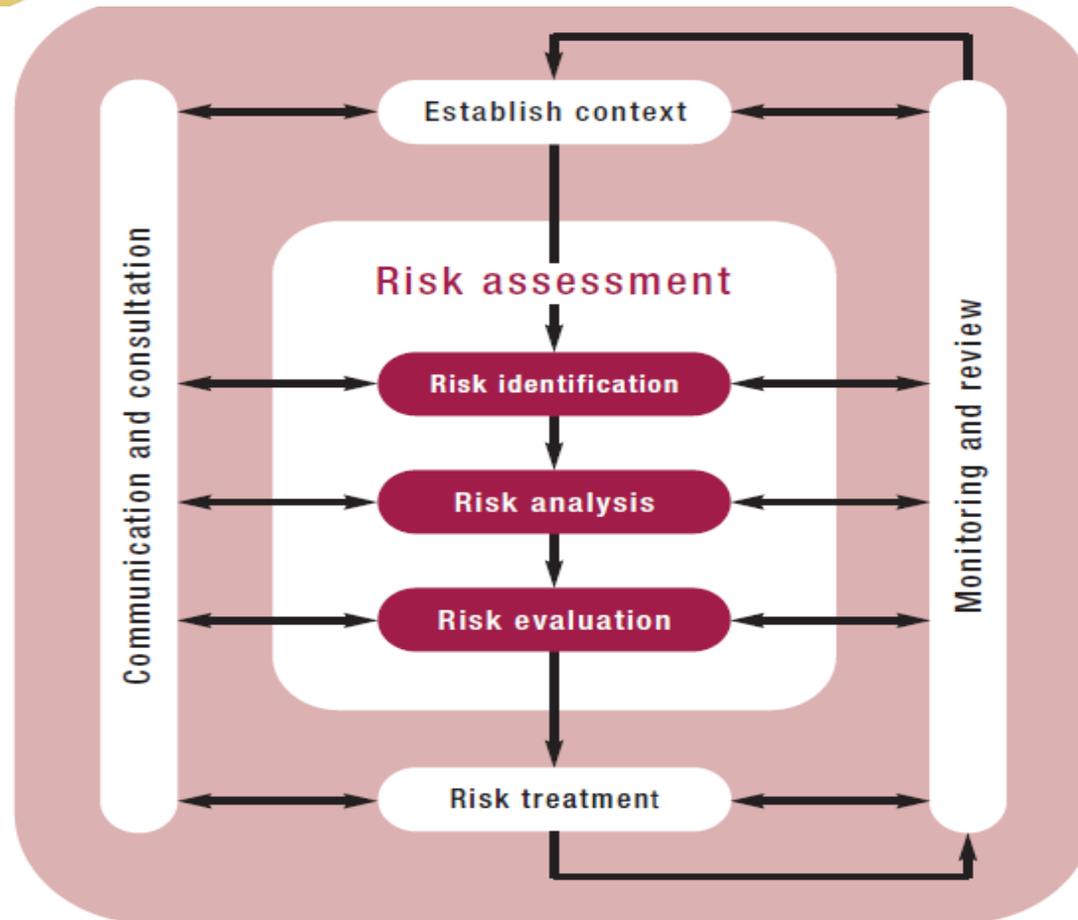


4. Our Approach to Asbestos Management

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Risk Identification/Impact

- Proactive engagement on legislation
- Assess impact of acts/bills
- Comment on impact to Transnet

Risk Analysis

- Transnet Group analyse risks
- Transnet OD's analyse risks

Risk Treatment

- Assess current control environment
- Develop new controls and update the legal register to mitigate compliance control
- Comment on impact to Transnet

Compliance Monitoring

- Compliance monitoring plan aligned to high risk
- Integrated Assurance
- ISO 14001 Control System Audits



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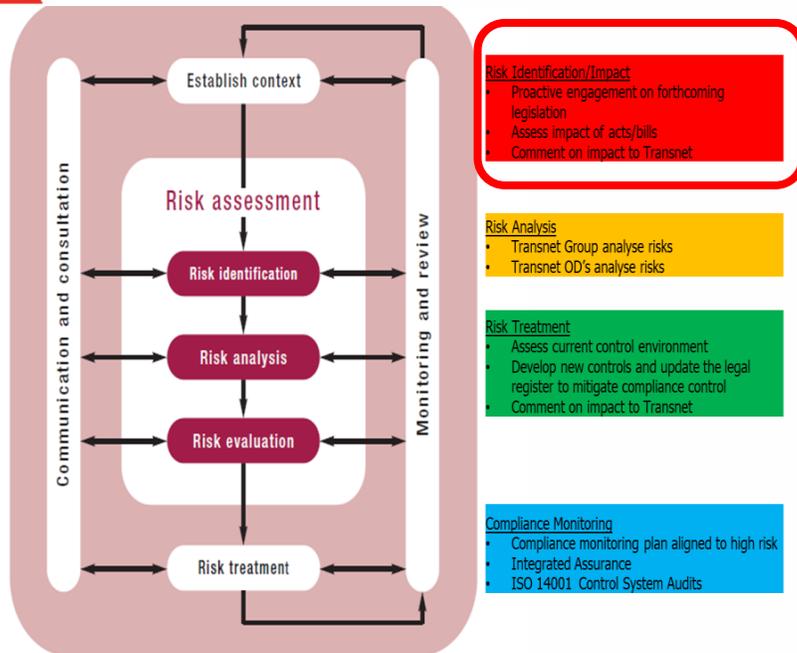
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4.1. Establishing Context

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- Development of Compliance Control Plan (Plan of action that addresses all legal requirements applicable to asbestos in buildings)

1. Occupational Health and Safety Act, 85 of 1993

- Section 8 of the Act: Duties of the employer.
- Every employer shall provide and maintain, as far as is reasonably practicable, a working environment that is safe and without risk to the health and safety of his employees.

2. Asbestos Regulations promulgated in terms of Section 20 of the Environment Conservation Act, 1989

- Requires the phasing out of asbestos.
- Prohibits the use, imports and export of asbestos containing material.
- Provides regulatory requirements on disposal, packaging and transportation of asbestos containing material.

3. Asbestos Regulations 55 published in terms of Occupational Health and Safety Act, 1993.

- Regulates the undertaking of Asbestos Remediation Work.

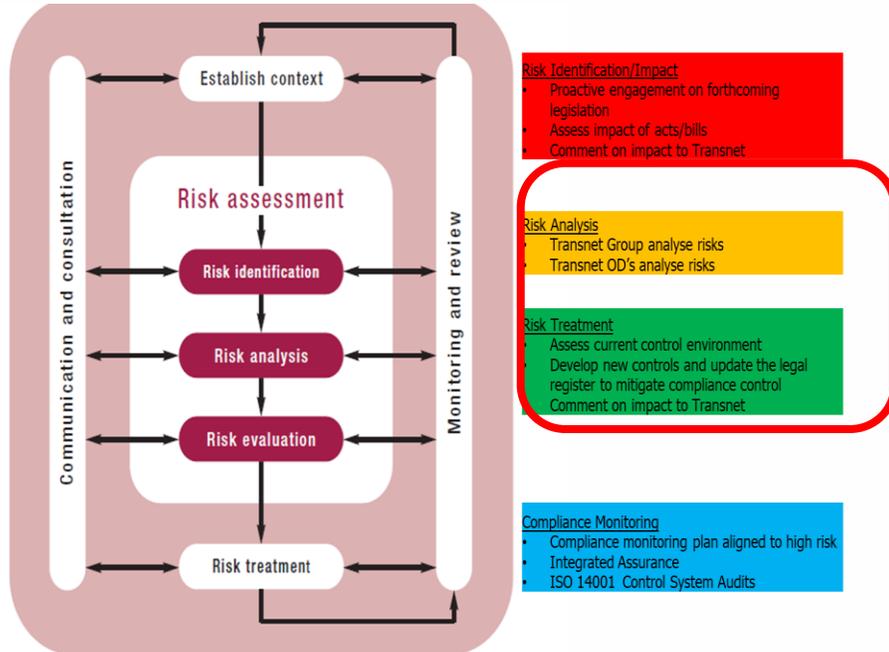




4.2. Risk identification, analysis and evaluation

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- Compiled asbestos registers across Transnet OD's and SBs
- Detailed asbestos assessments were conducted in all our buildings to ascertain presence of asbestos and the level of risk exposure to our employees and tenants.
- Prioritisation risk assessment determines our response to asbestos removal.
- A detailed asbestos plan were developed, where high risk properties as per asbestos surveys conducted are prioritised over a period of time and a budgets allocated accordingly
- An Asbestos Committee was established made up of multi-disciplinary team of Specialists, to ensure a coordinated approach to asbestos removal.
- Developed of Asbestos Standard Operating Procedure



Risk identification, analysis and evaluation continued

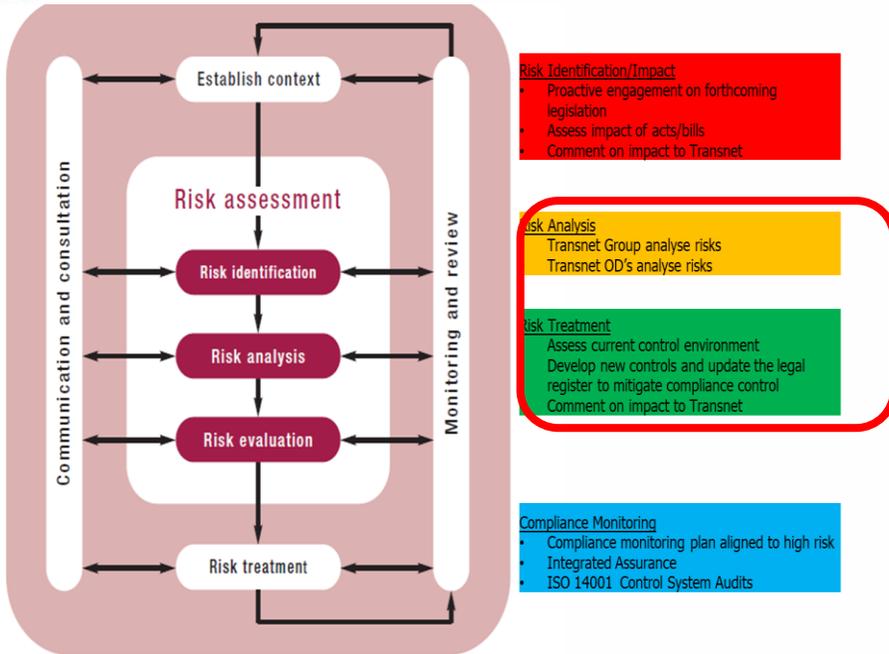
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- The following Risk matrix was used to determine asbestos risk in our buildings:

Total Risk Score	Priority of Remedial Action
≥ 19 (High)	Immediate Action Required
≥ 13 – 18 (Moderate)	Risk Requires Urgent Attention As Soon As Possible.
≥ 9 -12 (Low)	No Immediate Action Necessary. Risk currently Under Control, But Requires Regular Revision.
≤ 8 Very (Low)	No Immediate Action Necessary

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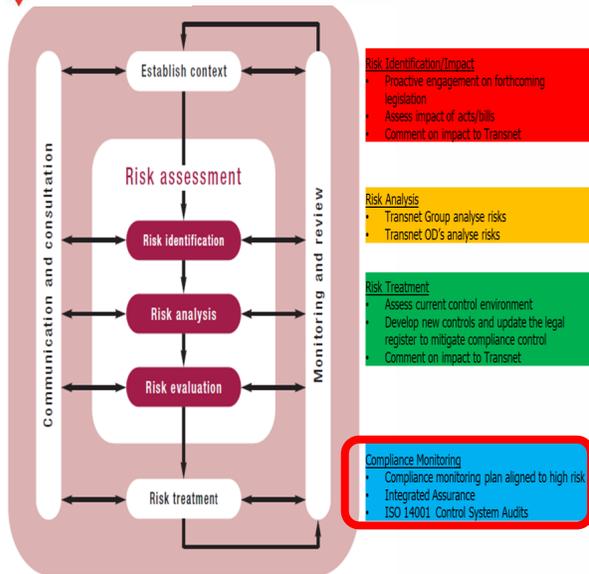


4.3. Risk Treatment

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- Implement asbestos sheetings removal programme
- To date 4 560 tonnes of asbestos removed.
- Asbestos disposed at the hazardous landfill sites.
- More than 50% of the buildings cleared of asbestos.
- Plan is for Transnet to be asbestos risk free by 2030.
- Monitoring of asbestos removal in the Asbestos Working Committee
- Hygiene surveys
- Update of the asbestos registers.
- Employees medical surveillance
- Air quality surveys
- Employee training on asbestos awareness

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5. Challenges

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- Funding availability
- Extreme weather events
- Legislative compliance (too many legislations)
- Insurance claims by employees
- Availability of hazardous landfill site across South Africa
- High cost of disposal at private landfill site
- Classification of asbestos as hazardous waste
- Technology for asbestos treatment technologies options in the market

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Thank You

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