

6. STRATEGIC ENVIRONMENTAL MANAGEMENT PLAN

6.1 Introduction

The purpose of the Strategic Environmental Management Plan (SEMP) is to provide EIA guidelines to steer stakeholders towards the desired state of environment.

The secondary value of the EMF is its ability to promote cooperative environmental governance, i.e. collective and coordinated decision-making by all stakeholders with an interest in the area. To this end the EMF recognises that project level EIA decisions alone do not achieve sustainability. The public sector also has a contribution to make in that their strategic policies and plans that set the development direction for the area must also promote sustainability. The SEMF therefore also provides management guidelines to support strategic or higher level decisions.

The SEMF provides guidelines to support environment impact assessments and decision-making in respect of:

- The preferred impact management approach in support of EIA decision-making, and
- Zone-specific management guidelines in respect of:
 - The attributes which will be impacted on should activities commence;
 - The level of assessment that will be appropriate for certain activity types;
 - The activities which may be considered for exclusion or exemption; and
 - The activities will be unsustainable and should thus not be promoted.

The activities listed in respect of the EIA Regulations should be further read with NEMA and its supporting legislation and regulations in respect of biodiversity, waste management, air quality and coastal management.

6.2 Implementation of NEMA Section 24

NEMA Section 24 gives effect to the general objectives of integrated environmental management, the potential consequences for or impacts by various activities on the environment.

The context of the study area, as well as the sensitivity, extent, interrelationship and significance of environmental attributes informed the **preferred impact management approach** in support of EIA decision making. This approach demands attention to the aspects as reflected in the table below.

PREFERRED IMPACT MANAGEMENT APPROACH	
Create additional resource capacity to advance growth	<ul style="list-style-type: none"> • 100% compliance to existing environmental standards • No release of land for development that would compromise Strategic Important Developments (SIDs). • Rehabilitation of contaminated sites • Rehabilitation of degraded areas
Incorporate landscape management in all decisions	<ul style="list-style-type: none"> • All assessments must consider and report on cumulative effects and landscape risks. • All assessments must consider the impacts of climate change. • The extent to which development will advance the desired state must be considered before a decision is made.
Consider LACs in decision-making	<ul style="list-style-type: none"> • All assessments must use LAC's as a benchmark for evaluating alternatives & considering trade-offs. • LACs must be used to communicate potential consequences of decisions.

The EMF also identifies the **socio-economic attributes** and the key pressures and impacts of land use that must be taken into account during the EIA process.

NON-ENVIRONMENTAL ATTRIBUTES TO BE CONSIDERED IN ENVIRONMENTAL ASSESSMENT	
Sustainable livelihoods	<ul style="list-style-type: none"> • People are at the forefront of environmental management and the EIA process must ensure that the health and wellbeing of advantaged and disadvantaged communities are secured.
Land use attributes	<ul style="list-style-type: none"> • Attributes which must be protected because of their contribution to sustainability. The area is a development node of strategic importance within a region that is generally impoverished. The following interests must be protected: <ul style="list-style-type: none"> ○ Port development and associated infrastructure ○ Industrial and commercial development ○ Municipality infrastructure and services ○ Other economic sectors
Pressures and impacts of land use	<ul style="list-style-type: none"> • There are also pressures and impacts of land use that reduces environmental potential and influence the sustainability of both environmental and socio-economic attributes. The EIA process needs to consider the contribution of proposed activities on the following issues: <ul style="list-style-type: none"> ○ Landscape transformation and quality ○ Resource consumption ○ Waste generation ○ Greenhouse gas emissions and pollutants ○ Energy use
Governance	<ul style="list-style-type: none"> • Intergovernmental coordination in respect of the various government departments' requirements must be ensured in the process.

The Act further provides for the identification of areas based on their geographical attributes in Section 24 (2) (b). This Section states that *"The Minister, or an MEC with the concurrence of the Minister, may identify geographical areas based on environmental attributes, and as specified in spatial development tools adopted in the prescribed manner by the environmental authority, in which specified activities may not commence without environmental authorisation from the competent authority"*

National government has embarked on a new initiative to identify geographical areas and to incorporate these into a national GIS-based decision support system. These areas are defined based on a combination of unique environmental attributes. They are then linked with a list of specific activities that specifies the inclusion or exclusion of EIA requirements. Section 24(2) also provides for the identification of additional activities. Geographical areas may, for example, contain attributes such as:

- focus areas for contributing to biodiversity thresholds;
- threatened ecosystems;
- the coastal zone;
- important topographical features;
- rivers, wetlands and other water bodies;
- protected areas;
- built-up areas; and
- Industrial Development Zones.

Geographical Areas

A geographical area is a spatially demarcated area with unique characteristics (attribute data) that distinguishes it from another area. These areas require specific management intervention to ensure its future environmental integrity.

It is evident that the study area contains a number of unique environmental attributes that are important, contributes to national and provincial priorities and/or that are under threat of development. The information in this EMF will therefore contribute substantially to the national initiative. The approach of the national initiative is not advanced in this EMF because the terms of reference required "strategic environmental zoning" to facilitate decisions on environmental requirements,

activities that may require an EIA or be exempted from an EIA process and acceptability of development applications.

The way that this was achieved was to identify Environmental Management Zones, based on their unique landscape-level characteristics, land use activities and suite of sensitivities. Each zone contains a number of unique environmental attributes. The kind of activities that would impact on these attributes and processes were identified. The following step-wise approach was followed:

- 1) Identify Environmental Management Zones, based on their unique landscape-level characteristics, land use activities and suite of sensitivities. Each zone contains a number of unique environmental attributes but there are also landscape-level processes that interact and support these attributes.
- 2) Identify the kind of activities that would impact on the area's attributes and processes. Activities currently listed in the EIA regulations were used as a basis.
- 3) Identify the primary features at risk in each identified zone - ground and surface water pollution, air quality, and habitats (terrestrial and estuarine ecosystem types) were identified.
- 4) Identify the potential impact of various activities on these areas and their attributes.
- 5) Make recommendations in respect of activities which should be subjected to an EIA rather than the required Basic Assessment based on the significance of the attributes.
- 6) Make recommendations in respect of matters which require special attention.
- 7) Identify areas where specific activity types are not preferred and should thus not be promoted due their potential for irreversible damage.

The Act further makes provision for the activities listed in the current regulations which may be considered for exclusion. Section 24 (2) (c) of NEMA states the following "*The Minister , or an MEC with the concurrence of the Minister, may identify geographical areas based on environmental attributes, and as specified in spatial development tools adopted in the prescribed manner by the environmental authority, in which specified activities may be excluded from authorisation by the competent authority*"

The Study Area contains a number of areas where attributes are less important or sensitive, or where the potential to harm the environment is less likely to occur. Recommendations were therefore made as to where exclusions could be considered for specific types of activities. The following is important in this regard:

- Any exclusion recommended by this EMF must still follow the specified procedural requirements. The gazetting of this EMF does not mean that these exclusions have been adopted.
- Any exclusion must be handled on a case by case basis. Proponents should apply to the Competent Authority for exclusion or exemption of said activities in respect of their proposal or area of operation.

Guidelines for EIA activities and waste management activities are provided in the following section.

6.3.1 Guidelines for EIA Activities

The table below reflects the list of the activity types in accordance with the activities identified in Regulations 386 and 387 of 21 April 2006, their potential impact, assessment requirements, matters requiring special attention, activity types which should not be promoted as well as potential exclusions.

Table 14: Guidelines for EIA Activities

Generic Activity	Activity type IRO regulations 386 & 387	Potential Impacts, Requirements & Exclusions									
		Surface Water	Ground Water	Air	Terrestrial Habitat	Estuarine Habitat	Basic Assessment required	EIA required	Special attention	Development is not preferred	Exclusion may be considered
Electricity Generation, Transmission and facilities	Facilities and associated structures for the generation and distribution >20kva of electricity	•	•	•	•	•		<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Visual	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Conservation Corridors & Linkages Areas 	
	Facilities and associated structures for the transmission and distribution of electricity above ground with a capacity > 33 kilovolts and < 120 kilovolts					•	<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Conservation Corridors & Linkages Areas 	Visual	<ul style="list-style-type: none"> Lakes Area Estuarine, Marine, Seashore Area Dune Cordon Area 	
	Decommissioning or recommissioning of existing facilities or infrastructure for electricity generation	•	•	•			<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area 	Ground Water	<ul style="list-style-type: none"> Lakes Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
Storage of coal or ore	Facilities and associated structures for the above ground storage of bulk ore or coal	•	•	•	•	•		<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain External Linkages & Corridors Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Port boundary subject to runoff groundwater & dust protection (EMP)
Resorts, lodges or other tourism accommodation facilities	Resorts, lodges, hotels or other tourism and hospitality facilities in a protected area		•			•	<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 		<ul style="list-style-type: none"> Dune Cordon Area 	

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Lawns & Sports Fields	Facilities and associated structures for any purpose where lawns, playing fields or sports tracks will be established	•					<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
Sport Spectator Facilities	Facilities and associated structures for sport spectator facilities					•	<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 			<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
Facilities for the slaughter of animals	Facilities and associated structures for the slaughter of animals	•	•	•	•	•		<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Conservation Corridors & Linkages Areas 	
Concentration of animals for commercial production	Facilities and associated structures for the concentration of animals for the purpose of commercial production	•	•	•	•	•		<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Conservation Corridors & Linkages Areas 	
	Facilities and associated structures for the concentration of animals for the purpose of commercial production in densities that exceed three square metres per head of poultry	•	•	•	•	•	<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 			<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Conservation Corridors & Linkages Areas 	
	Facilities and associated structures for the concentration of animals for the purpose of commercial production in densities that exceed three square metre per rabbit	•	•	•	•	•	<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area, Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Conservation Corridors & Linkages Areas 	
Aquaculture	Facilities and associated structures for aquaculture production, including mariculture and algae farms	•	•			•	<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		Waste water quality	<ul style="list-style-type: none"> Lakes Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
Agri-industrial facilities outside industrial complexes	Facilities and associated structures for agri-industrial purposes, outside areas with an existing land use zoning for industrial purposes	•	•			•	<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 			<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	

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Bulk transportation of water, sewage or storm water	Facilities and associated structures for the bulk transportation of sewage and water, including storm water, in pipelines with an internal diameter of 0,36 metres or more	•	•		•	•	<ul style="list-style-type: none"> Flood Plain Area Estuarine, Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Dune Cordon Area 	<ul style="list-style-type: none"> Lakes Area Estuarine, Marine, Seashore Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area Excluded within Port allocated servitudes 	
	Construction in the one in ten year flood line of a river or stream, or within 32 metres of a watercourse	Facilities and associated structures for any purpose in the one in ten year flood line of a river or stream, or within 32 metres from the bank of a river or stream where the flood line is unknown, excluding purposes associated with existing residential use, canals & channels	•	•		•	•		<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
		Facilities and associated structures for any purpose in the one in ten year flood line of a river or stream for bridges	•	•		•	•	<ul style="list-style-type: none"> Flood Plain Area Estuarine, Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Dune Cordon Area 	
Facilities and associated structures for any purpose in the one in ten year flood line of a river or stream for dams or weirs		•	•		•	•	<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Commercial Industrial Area 	<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 		
Dams, Reservoirs & Transfers	Facilities and associated structures for the off-stream storage of water, including dams and reservoirs				•	•	<ul style="list-style-type: none"> Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area 	<ul style="list-style-type: none"> Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Conservation Corridors & Linkages Areas 		
	The decommissioning of a dam where the highest part of the dam wall is 5 metres or higher or where the high-water mark of the dam covers an area of more than 10 hectares.				•	•	<ul style="list-style-type: none"> Lakes Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area 	<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Coastal Plain External Linkages & Corridors Area Conservation Corridors & Linkages Areas 			
	Facilities and associated structures for the transfer of 20 000 cubic metres or more water between water catchments or impoundments per day;	•	•		•			<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Conservation Corridors & Linkages Areas 	

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Aircraft & Helicopter landing strips & facilities	Facilities and associated structures for the landing, parking and maintenance of aircraft including waterways, helicopter landing pads, excluding stops used exclusively by emergency services and including structures for engine testing								<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Noise	<ul style="list-style-type: none"> Lakes Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Port boundary subject to groundwater protection
	Facilities and associated structures for the landing, parking and maintenance of aircraft including structures for equipment and aircraft storage, structures for maintenance and repair, structures for fuelling and fuel storage, and structures for air cargo handling						<ul style="list-style-type: none"> Lakes Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Port boundary subject to groundwater protection 		
Racing Facilities	Facilities and associated structures for the outdoor racing of motor powered vehicles including motorcars, trucks, motorcycles, and quad bikes					<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area 	<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 			
	Facilities and associated structures for the outdoor racing of motor powered boats and jet skis					<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area 	<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 			
Launching of watercraft on inland fresh water systems	Facilities and associated structures for marinas and the launching of watercraft on inland fresh water systems					<ul style="list-style-type: none"> Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Conservation Corridors & Linkages Areas 					
Cableways and Funiculars	Facilities and associated structures for above ground cableways and funiculars					<ul style="list-style-type: none"> Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Conservation Corridors & Linkages Areas 					
Outdoor Advertising	Facilities and associated structures for advertisements as defined in classes 1(a), 1(b), 1(c), 3(a), 3(b), 3(l) of the South African Manual for Outdoor Advertising Control					<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		Visual	<ul style="list-style-type: none"> Lakes Area, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area in accordance with Municipal Policy 		

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Activities in the sea, estuary, within the littoral active zone, a distance of 100 metres inland of the high-water mark or along the sea bed	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for the storage of material and the maintenance of vessels					<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area, Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> • Port Boundaries excluding dry-docks 	
	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for fixed or floating jetties and slipways					<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 		
	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for tidal pools					<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 		
	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for embankments, revetments, stabilising walls & structures		•		•	•	<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 	
	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea in respect of buildings					•	<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> • Port Boundary associated with existing key wall structures
	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for inter- and sub-tidal structures for entrapment of sand					•	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area, Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> • Conservation Corridors & Linkages Areas 	
								Salt water intrusion		

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	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for construction of piers							<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Saltwater intrusion	<ul style="list-style-type: none"> Lakes Area, Conservation Corridors & Linkages Areas 	
	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for facilities associated with the arrival and departure of vessels and the handling of cargo and breakwater structures							<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area, Conservation Corridors & Linkages Areas 	
	Construction or earth moving activities in the sea or within 100 metres inland of the high-water mark of the sea for coastal harbours, coastal marinas, structures for draining parts of the sea, tunnels, or underwater channels							<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Saltwater intrusion	<ul style="list-style-type: none"> Lakes Area Conservation Corridors & Linkages Areas 	
	The excavation, moving, removal, depositing or compacting of soil, sand, rock or rubble in the sea or within a distance of 100 metres inland of the high-water mark of the sea						<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Port Boundary associated with existing key wall structures 	
	The prevention of the free movement of sand, including erosion and accretion, by means of planting vegetation, placing synthetic material on dunes and exposed sand surfaces within a distance of 100 metres inland of the high-water mark of the sea.						<ul style="list-style-type: none"> Lakes Area Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 			
The removal or damaging of indigenous vegetation	The removal or damaging of indigenous vegetation of more than 10 square metres within a distance of 100 metres inland of the high-water mark of the sea.						<ul style="list-style-type: none"> Flood Plain Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Estuarine, Marine, Seashore Area Dune Cordon Area 		<ul style="list-style-type: none"> Lakes Area Conservation Corridors & Linkages Areas 	

<p>The infilling or depositing of material or the dredging, excavation, removal or moving of soil, sand or rock from a watercourse, the sea or seashore</p>	<p>The dredging, excavation, infilling, removal or moving of soil, sand or rock exceeding 5 cubic metres from a river, tidal lagoon, tidal river, lake, in-stream dam, floodplain or wetland.</p>	<p>•</p>	<p></p>	<p></p>	<p>•</p>	<p>•</p>	<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> • Dune Cordon Area 	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 	<p></p>
<p>Storage & Transportation of Dangerous Goods</p>	<p>The above ground storage of a dangerous good, including petrol, diesel, liquid petroleum gas or paraffin, in containers or at any one location or site.</p>	<p>•</p>	<p>•</p>	<p></p>	<p>•</p>	<p>•</p>	<p>If <500 Cubic meter then –</p> <ul style="list-style-type: none"> • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<p>If >500Cubic meter then -</p> <ul style="list-style-type: none"> • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<p>Visual</p>	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> • Port boundary subject to runoff groundwater protection
	<p>Facilities and associated structures for the bulk transportation of dangerous goods using pipelines, funiculars or conveyors</p>	<p>•</p>	<p>•</p>	<p></p>	<p>•</p>	<p>•</p>	<p></p>	<ul style="list-style-type: none"> • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Conservation Corridors & Linkages Areas 	<p></p>
	<p>The construction of filling stations, including associated structures and infrastructure, or any other facility for the underground storage of a dangerous good, including petrol, diesel, liquid petroleum gas or paraffin.</p>	<p>•</p>	<p>•</p>	<p></p>	<p></p>	<p></p>	<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area, Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<p></p>	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Dune Cordon Area • Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> • Coastal Plain Commercial Industrial Area
<p>Mining, Reconnaissance, Exploration, and Production</p>	<p>Renewal of permits and permissions for reconnaissance, prospecting, mining or retention operations as provided for in the Mineral and Petroleum Resources Development Act</p>	<p>•</p>	<p>•</p>	<p></p>	<p>•</p>	<p>•</p>	<p></p>	<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 	<p></p>
<p>Cemeteries</p>	<p>The establishment of cemeteries.</p>	<p>•</p>	<p>•</p>	<p></p>	<p>•</p>	<p></p>	<p></p>	<ul style="list-style-type: none"> • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Conservation Corridors & Linkages Areas 	<p></p>

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<p>Removal or transformation of indigenous vegetation</p>	<p>The transformation or removal of indigenous vegetation of 3 hectares or more or where the transformation or removal would occur within a critically endangered or an endangered ecosystem listed in terms of section 52 of the National Environmental Management: Biodiversity Act</p>	<p>•</p>	<p></p>	<p></p>	<p>•</p>	<p>•</p>	<ul style="list-style-type: none"> • Lakes Area • Estuarine, Marine, Seashore Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> • Flood Plain Area • Dune Cordon Area • Coastal Plain Residential Area 	<p></p>	<ul style="list-style-type: none"> • Conservation Corridors & Linkages Areas 	<p></p>
<p>Abstraction of groundwater</p>	<p>The abstraction of groundwater at a volume where any general authorisation issued in terms of the National Water Act will be exceeded.</p>	<p>•</p>	<p>•</p>	<p></p>	<p>•</p>	<p>•</p>	<p></p>	<p></p>	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	<p></p>
<p>The construction of masts</p>	<p>The construction of masts of any material or type and of any height, including those used for telecommunication broadcasting and radio transmission, but excluding masts of 15 metres and lower exclusively used by radio amateurs, or for lighting purposes, flag poles, or for lightning conductor poles.</p>	<p>•</p>	<p>•</p>	<p></p>	<p>•</p>	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> • Conservation Corridors & Linkages Areas 	<p></p>	<p></p>	<ul style="list-style-type: none"> • Coastal Plain Commercial Industrial Area • Port operational areas subject to light pollution abatement
<p>Roads & Route Determination</p>	<p>The construction of a road that is wider than 4 metres or that has a reserve wider than 6 metres</p>	<p>•</p>	<p></p>	<p></p>	<p>•</p>	<p></p>	<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> • Lakes Area • Estuarine, Marine, Seashore Area • Dune Cordon Area 	<p></p>	<ul style="list-style-type: none"> • Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> • Excluding cargo haulage roads within existing Port operation areas
	<p>The route determination of roads and design of associated physical infrastructure where it is a national road or a road administered by a provincial authority and the road reserve is wider than 30 metres</p>	<p>•</p>	<p></p>	<p></p>	<p>•</p>	<p></p>	<p></p>	<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 	<p></p>	<ul style="list-style-type: none"> • Lakes Area • Dune Cordon Area • Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> • Excluding cargo haulage roads within existing Port operation areas

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	The route determination of roads and design of associated physical infrastructure, including roads that have not yet been built for which routes have been determined before the publication of this notice and which has not been authorised by a competent authority in terms of the Environmental Impact Assessment Regulations, 2006 made under section 24(5) of the Act and published in Government Notice No. R. 385 of 2006, where the road will cater for more than one lane of traffic in both directions.							<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
Land Development	The transformation of undeveloped, vacant or derelict land to establish infill development, residential, mixed, retail, commercial, industrial or institutional use or the transformation of an area zoned for use as public open space or conservation purpose to another use.					<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area, Coastal Plain Residential Area Coastal Plain Commercial Industrial Area 	<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Dune Cordon Area Conservation Corridors & Linkages Areas 		
	The subdivision of portions of land 9 hectares or larger into portions of 5 hectares or less.					<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Coastal Plain Residential Area Coastal Plain Commercial Industrial Area 	<ul style="list-style-type: none"> Coastal Plain Subsistence Farming Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Dune Cordon Area Conservation Corridors & Linkages Areas 		
Phased activities	Phased activities where any one phase of the activity may be below a threshold specified in the Schedule but where a combination of the phases, including expansions or extensions, will exceed a specified threshold.					<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Dune Cordon Area Conservation Corridors & Linkages Areas 		
Manufacturing processes, warehousing, bottling, packaging, and storage	The development of a new facility or the transformation of an existing facility for the conducting of manufacturing processes, warehousing, bottling, packaging, or storage, which, including associated structures or infrastructure, outside an existing area zoned for industrial purposes.					<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Dune Cordon Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Within existing Port operation areas without an increase in pollution risk and subject to dust and runoff management 	

<p>The release of genetically modified organisms</p>	<p>The release of genetically modified organisms into the environment</p>					<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area, • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Conservation Corridors & Linkages Areas 				
<p>The release of any organisms for biological pest control.</p>	<p>The release of any organism outside its natural area of distribution that is to be used for biological pest control.</p>					<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Conservation Corridors & Linkages Areas 				
<p>Nuclear processes, facilities, and radio active products or waste</p>	<p>The Construction, recommissioning, or decommissioning of existing facilities or infrastructure, for nuclear reactors, storage of nuclear fuel, nuclear reaction including the production, enrichment, processing, reprocessing, storage or disposal of nuclear fuels, radioactive products and waste.</p>	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 			<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
<p>Contaminated or potentially contaminated facilities or the land for re-use for a different purpose</p>	<p>The decommissioning of existing facilities or infrastructure, industrial activities where the facility or the land on which it is located is contaminated or has the potential to be contaminated by any material which may place a restriction on the potential to re-use the site for a different purpose</p>	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 			<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> • Lakes Area 	
<p>Release of emissions, pollution, effluent or waste</p>	<p>The construction, expansion recommissioning or use of any facility or infrastructure, for any process or activity, which require permission, authorisation, in terms of legislation governing the release of emissions, pollution, effluent or waste</p>	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • 				<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area, 	<p>Visual</p>	<ul style="list-style-type: none"> • Dune Cordon Area • Conservation Corridors & Linkages Areas

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Any process or activity identified in terms of National Environmental Management: Biodiversity Act	Any process or activity identified in terms of section 53(1) of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).						<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area 		<ul style="list-style-type: none"> Conservation Corridors & Linkages Areas 	
Refining, extraction, or processing of gas, oil and petroleum products	The construction of facilities or infrastructure, including associated structures or infrastructure, for the refining of gas, oil and petroleum products;	•	•	•	•	•		<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Visual	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
Marine telecommunication	The construction of facilities or infrastructure, including associated structures or infrastructure, for marine telecommunications.					•	•	<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Conservation Corridors & Linkages Areas 	
Railway lines, stations or shunting yards	The construction of facilities or infrastructure for rail transportation, underground railway lines in mines, including railway lines, stations, shunting yards but excluding railway lines and sidings in industrial areas.	•					•	<ul style="list-style-type: none"> Coastal Plain Commercial Industrial Area 	Eco-Linkages	<ul style="list-style-type: none"> Dune Cordon Area Coastal Plain Residential Area Conservation Corridors & Linkages Areas 	<ul style="list-style-type: none"> Port Boundary within the services corridor
Explosives & Ammunition	The construction of facilities or infrastructure for the manufacturing, storage or testing of explosives, including ammunition, but excluding licensed retail outlets and the legal end use of such explosives.	•		•	•			<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Conservation Corridors & Linkages Areas 	
Extraction of natural gas including from landfill sites	The construction of facilities or infrastructure for the extraction or processing of natural gas including gas from landfill sites.	•	•	•	•			<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 		<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	
Treatment of Waste and Cremation	The construction of facilities or infrastructure for the incineration, burning, evaporation, thermal treatment, roasting or heat sterilisation of waste or effluent, including the cremation of human or animal tissue.			•				<ul style="list-style-type: none"> Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Disposal	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Conservation Corridors & Linkages Areas 	

Peat	The extraction of peat.	•	•	•	•				<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
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6.3.2 Guidelines for Waste Management Activities

Waste management activities also have the potential to significantly affect the integrity of the study area. The table below reflect the activities listed in the Waste Management Act, their potential impact, assessment requirements, matters requiring special attention, and activity types which should not be promoted.

Table 15: Guidelines for Waste Management Activities

Generic Activity	Waste Activity type	Potential Impacts, Requirements & Exclusions									
		Surface Water	Ground Water	Air	Terrestrial Habitat	Estuarine Habitat	Basic Assessment required	EIA required	Special attention	Development is not preferred	Exclusion may be considered
Storage of Waste	The storage, including the temporary storage, of general waste at a facility that has the capacity to store in excess of 100 m ³ of general waste and in excess of 35m ³ of hazardous waste at anyone time. And the storage of general & hazardous waste in lagoons.	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area Conservation Corridors & Linkages Areas 	
	The storage of waste tyres in a storage area exceeding 500m ²	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area Conservation Corridors & Linkages Areas 	
Re-use, Recycle, and Recovery	The sorting, shredding, grinding or bailing of general waste at a facility that has the capacity to process in excess or one ton of general waste per day.	•	•	•	•			Nuisance Odours, Consider associated infrastructure	<ul style="list-style-type: none"> Lakes Area, Flood Plain Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area Conservation Corridors & Linkages Areas 		

Treatment of Waste	The recovery, reuse and recycling including the refining, utilisation or co-processing of waste or hazardous waste.	•	•	•	•				Nuisance Odours, Consider associated infrastructure	<ul style="list-style-type: none"> • Lakes Area, Flood Plain • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The scrapping or recovery of motor vehicles at a facility that has an operational area in excess of 500m2	•	•	•	•				Waste Oils & fuels recovery	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The recycling or re-use of general waste of more than 10 tons per month	•	•	•	•				Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The recovery of waste including the refining, utilisation, or co-processing of the waste at a facility that has the capacity to process in excess of three tons of general waste or less than 500kg of hazardous waste per day, excluding recovery that takes place as an integral part of an internal manufacturing process within the same premises.	•	•	•	•				Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The biological, physical or physico-chemical treatment of general waste at a facility that has the capacity to process in excess of 10 tons of general waste per day.	•	•	•	•				Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas

<p>The biological, physical or physico-chemical treatment of hazardous waste at a facility that has the capacity to receive in excess of 500 kg of hazardous waste per day.</p>	•	•	•	•															Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
<p>The processing of waste at biogas installations with a capacity to process in excess of five tons per day of bio-degradable waste.</p>	•	•	•	•															Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
<p>The treatment of hazardous waste using any form of treatment regardless of the size or capacity of such a facility to treat such waste,</p>	•	•	•	•															Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
<p>The treatment of hazardous waste using any form of treatment regardless of the size or capacity of such a facility to treat such waste,</p>	•	•	•	•																<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
<p>The treatment of effluent, wastewater or sewage with an annual throughput capacity of more than 2 000 cubic metres but less than 15 000 cubic metres.</p>	•	•	•	•	•														Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	

<p>The treatment of hazardous waste in lagoons.</p>	•	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
<p>The treatment of effluent, wastewater or sewage with an annual throughput capacity of 15 000 cubic metres or more.</p>	•	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	
<p>The remediation of contaminated land.</p>	•	•	•	•	•	•	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 		Disposal of waste		
<p>The extraction, recovery or flaring of landfill gas.</p>			•				<ul style="list-style-type: none"> • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain External Linkages & Corridors Area 		Consider associated infrastructure	<ul style="list-style-type: none"> • Lakes Area • Conservation Corridors & Linkages Areas 	
<p>The incineration of waste regardless of the capacity of such a facility.</p>	•	•	•						Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas 	

Disposal of Waste	The disposal of inert waste in excess of 25 tons and with a total capacity of 25 000 tons, excluding the disposal of such waste for the purposes of levelling and building which has been authorised by or under other legislation.	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The disposal of any quantity of hazardous waste to land,	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The disposal of general waste to land covering an area in excess of 200m ² ,	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The disposal of general waste to land covering an area of more than 50m ² but less than 200m ² and with a total capacity not exceeding 25 000 tons.	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
	The disposal of domestic waste generated on premises in areas not serviced by the municipal service where the waste disposed does not exceed 500kg per month	•	•	•	•	•			Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area • Conservation Corridors & Linkages Areas
Storage & Treatment & Processing Animal Waste	The storage, treatment or processing of animal manure at a facility with a capacity to process in excess of one ton per day.	•	•	•	•	•	<ul style="list-style-type: none"> • Coastal Plain Subsistence Farming Area • Coastal Plain Commercial Industrial Area • Coastal Plain External Linkages & Corridors Area 		Nuisance Odours	<ul style="list-style-type: none"> • Lakes Area • Flood Plain Area • Estuarine, Marine, Seashore Area • Dune Cordon Area • Coastal Plain Residential Area • Conservation Corridors & Linkages Areas

Construction, Expansion, Decommissioning of Facilities	The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity).	•	•	•	•	•	<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Nuisance Odours	<ul style="list-style-type: none"> Lakes Area Dune Cordon Area Conservation Corridors & Linkages Areas
	Construction of facilities for activities listed in Category A of this Schedule (not in isolation to associated activity).	•	•	•	•	•	<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Nuisance Odours	<ul style="list-style-type: none"> Lakes Area Dune Cordon Area Conservation Corridors & Linkages Areas
	The expansion of facilities of or changes to existing facilities for any process or activity, which requires an amendment of an existing permit or license or a new permit or license in terms of legislation governing the release of pollution, effluent or waste.	•	•	•	•	•	<ul style="list-style-type: none"> Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area 	Nuisance Odours	<ul style="list-style-type: none"> Lakes Area, Dune Cordon Area, Conservation Corridors & Linkages Areas
	The decommissioning of activities listed in this Schedule.	•	•	•	•	•	<ul style="list-style-type: none"> Lakes Area Flood Plain Area Estuarine, Marine, Seashore Area Dune Cordon Area Coastal Plain Residential Area Coastal Plain Subsistence Farming Area Coastal Plain Commercial Industrial Area Coastal Plain External Linkages & Corridors Area Conservation Corridors & Linkages Areas 		

6.3.3 Guidelines for Management Zones

The purpose of these guidelines is to assist with and support the implementation of the EIA decision-making process. These guidelines are not exhaustive and are there to assist the proponent, planner, and decision maker with a decision framework. They should be used as a guide in addition to existing policies and standards as described by the various authorities.

Some of the guidelines reflected are applicable across all zones zone and are not necessarily repeated in each zone for practical reasons and the omissions should **not** be viewed as exclusions.

Area	Guidelines	Responsibility
Lake Area	<p>Hydrology</p> <ul style="list-style-type: none"> • Water allocation and use may not have any further negative effect on the ground water table, surface water and ecological reserve of the Area • The RDM of the aquatic function must be ensured • Rivers and Stream feeding into the lakes must be managed and protected • Water requirement for agricultural and industrial purposes must come from savings from existing allocations or re-allocations • Ground and Surface water quality must be monitored and managed • Stormwater and run-off water must be monitored and managed i.r.o its quality <p>Biodiversity</p> <ul style="list-style-type: none"> • The buffering ability of riparian environments must be protected <p>Air Quality</p> <ul style="list-style-type: none"> • Air quality limits must be maintained within set standards <p>Land Use</p> <ul style="list-style-type: none"> • Sediment yield from mining and farming practices must be reduced • Water run-off quality from agricultural drains must meet water quality standards <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> • Water quality must be maintained to reduce human vulnerability • Access to water must be secured <p>Institutional Capacity</p> <ul style="list-style-type: none"> • Coordination and cooperation must be fostered between the various water management authorities • Monitoring and reporting structures must be strengthened 	<ul style="list-style-type: none"> • KZN DAE&RD • Dept of Water Affairs • Municipality • uMhlathuze Water • KZN Ezemvelo Wildlife
Floodplain Area	<p>Hydrology</p> <ul style="list-style-type: none"> • The areas ability to attenuate and route floods must be retained and protected • Water quality and sediment loads must be managed and improved • Sediment spillages from mining activities must be stopped <p>Biodiversity</p> <ul style="list-style-type: none"> • Linkages, corridors and critical habitats must be maintained to protect the current biodiversity integrity <p>Air Quality</p> <ul style="list-style-type: none"> • Air quality limits must be maintained within set standards • Pm10 contributions from current agricultural activities must be monitored and managed <p>Land Use</p> <ul style="list-style-type: none"> • The Port estuary must be managed and maintained for to facilitate trade • Land based activities must not negatively impact hydrological functioning, marine or estuarine resources • Agricultural practices must be conducted in a sustainable manner <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> • Environmental quality must be maintained to reduce human vulnerability 	<ul style="list-style-type: none"> • KZN DAE&RD • National Dept of Agric • Municipality • uMhlathuze Water • KZN Ezemvelo Wildlife

Area	Guidelines	Responsibility
	<ul style="list-style-type: none"> • Sustainable access to natural resources and recreational activities must be secured <p>Institutional Capacity</p> <ul style="list-style-type: none"> • Cooperation must be facilitated between the various authorities and role-players to ensure the environmental priorities set are achieved 	
Estuarine, Marine, Seashore Area	<p>Hydrology</p> <ul style="list-style-type: none"> • Hydrological linkages and buffers must be maintained and protected to ensure that the hydrological functioning is maintained • The recommended freshwater RDM must be maintained • The tidal prism must be maintained <p>Biodiversity</p> <ul style="list-style-type: none"> • The ecological function and diversity of the area must be maintained • Vegetation cover must be maintained • The temporal variability must be maintained <p>Air Quality</p> <ul style="list-style-type: none"> • Air quality limits must be maintained within set standards • Dust outfalls from bulk storage operations must be monitored and managed <p>Land Use</p> <ul style="list-style-type: none"> • The Port estuary must be managed and maintained for to facilitate trade • Land based activities must not negatively marine and estuarine resources • The risks posed by sea level rise must be monitored managed. <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> • Environmental quality must be maintained to reduce human vulnerability • Sustainable access to natural resources and recreational activities must be secured <p>Institutional Capacity</p> <ul style="list-style-type: none"> • Cooperation must be facilitated between the various authorities and role-players to ensure the environmental priorities set are achieved 	<ul style="list-style-type: none"> • KZN DAE&RD • Nat Dept of Enviro Affairs • Municipality • KZN Ezemvelo Wildlife
Dune Cordon Area	<p>Hydrology</p> <ul style="list-style-type: none"> • Groundwater levels must be managed and maintained <p>Biodiversity</p> <ul style="list-style-type: none"> • The biodiversity must be maintained to ensure geomorphological stability <p>Land Use</p> <ul style="list-style-type: none"> • Development activities may not impact dune stability • Dune vegetation must be protected and maintained <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> • Environmental quality must be maintained to reduce human vulnerability • Sustainable access to significant natural resources and recreational activities must be secured <p>Institutional Capacity</p> <ul style="list-style-type: none"> • Cooperation must be facilitated between the various authorities and role-players to ensure the environmental priorities set are achieved 	<ul style="list-style-type: none"> • KZN DAE&RD • Nat Dept of Enviro Affairs • Municipality • KZN Ezemvelo Wildlife
Coastal Plain Residential Area	<p>Hydrology</p> <ul style="list-style-type: none"> • Ground water levels must be managed and maintained • Storm water runoff quality must be managed within set standards <p>Biodiversity</p> <ul style="list-style-type: none"> • Ecological functioning and biodiversity assets must be must be maintained within open spaces <p>Land Use</p> <ul style="list-style-type: none"> • The area must retain its residential development focus <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> • Environmental quality must be maintained to reduce human vulnerability • Sustainable access to significant natural resources and recreational activities 	<ul style="list-style-type: none"> • KZN DAE&RD • Municipality • KZN Ezemvelo Wildlife

Area	Guidelines	Responsibility
	<p>must be secured</p> <p>Institutional Capacity</p> <ul style="list-style-type: none"> Cooperation must be facilitated between the various authorities and role-players to ensure the environmental priorities and desired environmental state is achieved 	
<p>Coastal Plain Subsistence Farming Area</p>	<p>Hydrology</p> <ul style="list-style-type: none"> Ground water levels must be managed and maintained <p>Biodiversity</p> <ul style="list-style-type: none"> Ecological functioning and biodiversity assets must be managed and maintained for the benefit of sustainable livelihoods <p>Land Use</p> <ul style="list-style-type: none"> The area must be managed and maintained for sustainable livelihoods <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> Environmental quality must be maintained to reduce human vulnerability Sustainable access to significant natural resources and recreational activities must be secured <p>Institutional Capacity</p> <ul style="list-style-type: none"> Cooperation must be facilitated between the various authorities and role-players to ensure the environmental priorities and desired environmental state is achieved 	<ul style="list-style-type: none"> KZN DAE&RD National Dept of Agric Municipality KZN Ezemvelo Wildlife
<p>Coastal Plain Commercial & Industrial Area</p>	<p>Hydrology</p> <ul style="list-style-type: none"> Hydrological linkages and buffers must be maintained and protected to ensure that the hydrological functioning is maintained Ground and Surface water quality must be monitored and managed Stormwater and run-off water must be monitored and managed i.r.o its quality <p>Biodiversity</p> <ul style="list-style-type: none"> The ecological functioning and biodiversity assets must be maintained by consolidating the core areas as a priority Ecological linkages must be established, managed and protected <p>Air Quality</p> <ul style="list-style-type: none"> Air quality limits must be maintained within set standards <p>Land Use</p> <ul style="list-style-type: none"> “Green Industry” must be promoted Non-polluting industries must be promoted Labour intensive industries must be promoted <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> Environmental quality must be maintained to reduce human vulnerability <p>Institutional Capacity</p> <ul style="list-style-type: none"> Cooperation must be facilitated between the various authorities and role-players to ensure the environmental priorities and desired environmental state is achieved 	<ul style="list-style-type: none"> KZN DAE&RD Nat Dept of Enviro Affairs Municipality KZN Ezemvelo Wildlife
<p>Coastal Plain External Linkages Area</p>	<p>Hydrology</p> <ul style="list-style-type: none"> Ground water levels must be managed and maintained <p>Biodiversity</p> <ul style="list-style-type: none"> Ecological functioning and biodiversity assets must be managed and maintained for the benefit of sustainable livelihoods <p>Air Quality</p> <ul style="list-style-type: none"> New developments may not exceed set standards nor contribute to existing air quality limits within the study area Pm10 contributions from current agricultural activities must be monitored and managed <p>Land Use</p> <ul style="list-style-type: none"> Land based activities must not negatively impact hydrological functioning, 	<ul style="list-style-type: none"> KZN DAE&RD National Dept of Agric Municipality KZN Ezemvelo Wildlife

Area	Guidelines	Responsibility
	<p>marine or estuarine resources</p> <ul style="list-style-type: none"> • Agricultural practices must be conducted in a sustainable manner <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> • Environmental quality must be maintained to reduce human vulnerability • Sustainable access to natural resources and recreational activities must be secured <p>Institutional Capacity</p> <ul style="list-style-type: none"> • Cooperation must be facilitated between the various authorities and role-players to ensure the environmental opportunities for this area is enhanced 	
<p>Conservation Corridor & Linkages</p>	<p>Hydrology</p> <ul style="list-style-type: none"> • The hydrological and ecological functioning of rivers, streams and adjacent riparian habitats must be managed and maintained • The baseflow of streams and rivers must be protected and maintained • Streambeds and banks must be protected and maintained • River flow variability and quality must be maintained according to RDM requirements • No development must be allowed within floodline areas <p>Biodiversity</p> <ul style="list-style-type: none"> • Corridors and linkages must be provided to ensure the maintenance of biodiversity integrity • Corridors must include altitudinal and latitudinal gradients, habitat diversity and be of an appropriate size and configuration • Appropriate management plans must be developed for each of the natural units • Riparian vegetation must be protected <p>Air Quality</p> <ul style="list-style-type: none"> • Air quality limits must be maintained within set standards <p>Land Use</p> <ul style="list-style-type: none"> • Land and port based activities must not negatively impact on the functioning of linkages and corridors <p>Sustainable Livelihoods</p> <ul style="list-style-type: none"> • Sustainable livelihoods may take place in controlled circumstances with these areas <p>Institutional Capacity</p> <ul style="list-style-type: none"> • Cooperation must be facilitated between the various authorities and role-players to ensure the environmental priorities and desired environmental state is achieved 	<ul style="list-style-type: none"> • KZN DAE&RD • Nat Dept of Enviro Affairs • Municipality • KZN Ezemvelo Wildlife