



LANGEBERG

MUNISIPALITEIT MUNICIPALITY MASIPALA

Core Municipal Disaster Management Plan

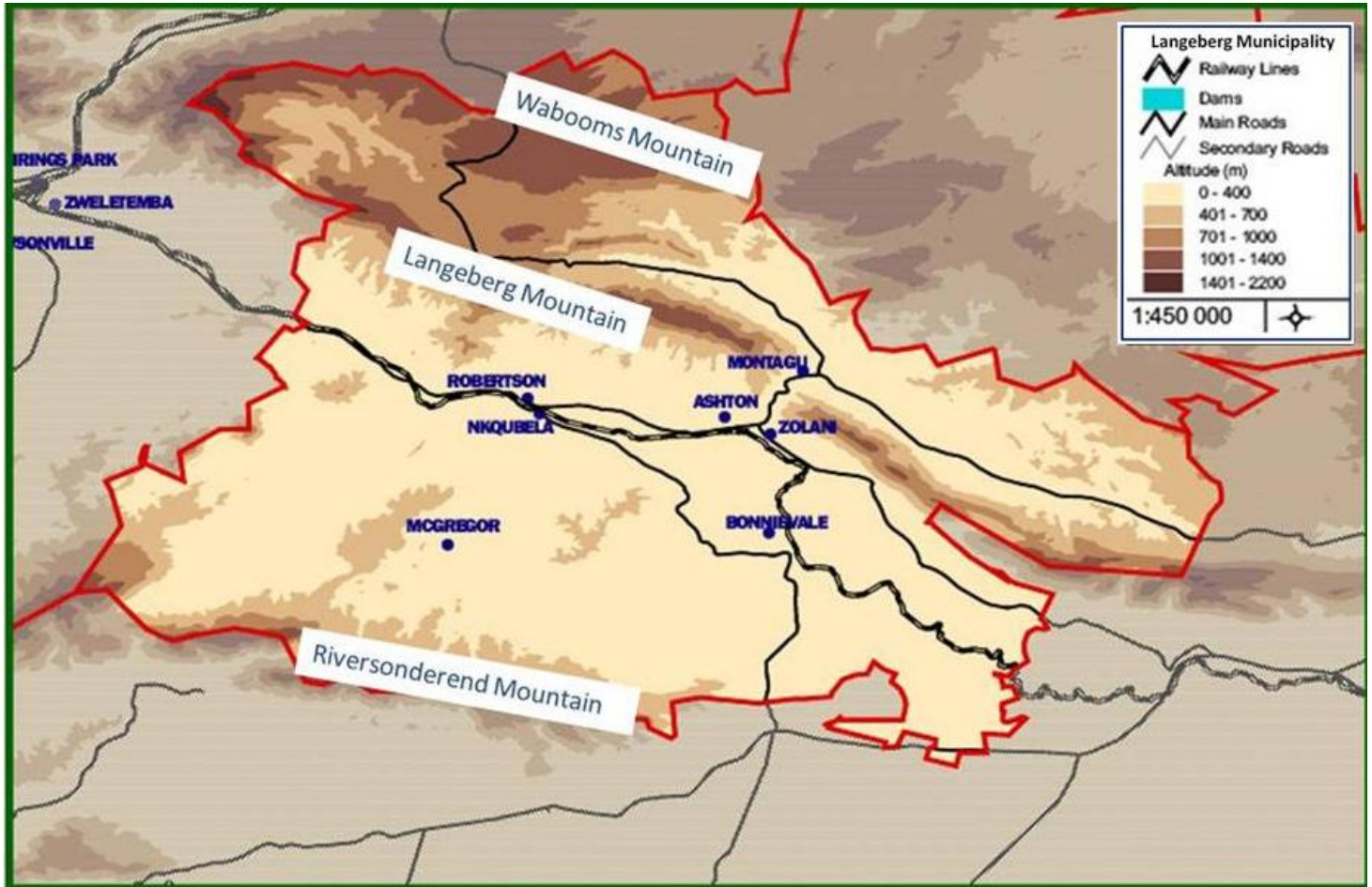


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SECTION A
EXECUTIVE SUMMARY CORE DISASTER MANAGEMENT PLAN

GENERAL DESCRIPTION AND OVERVIEW

<p>Total Area: 4 519. km² (Approximately) Population density: 24.05 (persons/square kilometre - 2007) Western area (urban) 8.4 km² Eastern (urban) 10.6 km²</p>	
Area: Robertson, McGregor and Adjacent Rural Area	Area: Ashton, Montagu and Bonnievale
<p>General Description of the Area: Areas between Robertson/McGregor and Ashton are sub-divided in terms of Disaster Management purposes for application. Robertson is divided into Vinkrivier, Noree, Goree, Willem Nelsrivier, De Hoop, Le Chasseur/Agterkliphoogte and Klaas Voogdsrivier. McGregor is divided by the Koningsrivier system.</p> <p>Robertson district is basically divided in two by the Breede River which flows parallel to the mountain ranges (Langeberg and Rivieronderend).</p>	<p>General Description of the Area: Subdivided into several valleys: mountainous area, with Koo/Keisie, Pietersfontein, Baden and Rietrivier areas. A confluence of the Keisie and Kingna river systems is situated at the western town boundary of Montagu. Montagu is situated between Langeberg and Waboomsberg ranges. Bonnievale is situated appr. 20km south of Ashton, adjacent to the Breede River. The area is subdivided into the following sub-regions/communities: Wakkerstroom, Langverwacht/Angora, Boesmansrivier, Drew and Waboomsheuwel.</p>
<p>Approximate distances (from Robertson): Ashton (18km), Bonnievale (28km), McGregor(22) and Montagu (28). Surrounding municipalities are Breede Valley, north west (50km), Swellendam (72km), east and Cape Agulhas (110km) in the south.</p>	
<p>Connection Routes: The most important route: R60, between Worcester and Swellendam. Route 317 connects Robertson to Bonnievale. Various secondary routes e.g. main roads, (tar and dirt roads) in the rural area.</p>	<p>Connection Routes: The most important routes: R317 between Robertson/Bonnievale/Stormsvlei, the R60 between Worcester/Robertson/Ashton/Swellendam and several leading from the latter to Bonnievale. R62 between Ashton/Montagu/Barrydale Various secondary routes e.g. main roads, (tar and dirt roads) in the rural area. The R318 connects Montagu to the N1, via Keisie/Koo.</p>
<p>Occupancy types (Total Area) Approximation: Total Households 20 931 Total Commercial Businesses 1300 Total Industrial Businesses 61</p> <p>Informal (by approximation – as per waste removal statistics)</p> <p style="margin-left: 100px;">Ashton: 0 Bonnievale: 133 Mcgregor: 116 Montagu: 64 Robertson 444</p>	

GENERAL DESCRIPTION AND OVERVIEW (CONT.)

<p>Railway Lines – and Bridges Railway Bridges Vink River: Steel construction Willemnells River: (concrete) Zand River (concrete). The main railway line between Worcester and Mosselbay stretches for approximately 30km through the Robertson area and carries an amount of three (3) goods/passenger trains daily. A large number of hazardous loads are transported on this railway route.</p> <p>Railway Line Crossings: unguarded crossings at Cape Lime, Rooiberg Cellars, Goree, Silver Strand Road and Nkqubela.</p> <p>Important Bridges: Victoria bridge, between Robertson and McGregor over the Breede River. Vink River bridge: on the R60 between Robertson and Worcester. Vicinity of Vink River railway station: road bridge on the R60 over the main railway line. KeisersRiver bridge: on the road from Robertson to McGregor. Road bridge: at Robertson railway station over the railway line and the Hoops River</p>	<p>Railway Lines – and Bridges Railway line between Ashton and Bonnievale Railway Bridges One rail bridge in Ashton. The main railway line between Worcester and Mossel Bay stretches for approximately 20km through the Bonnievale area and carries approximately three (3) goods/passenger trains daily. A large number of hazardous loads are transported on this railway route.</p> <p>Railway Line Crossings: two (2) unguarded crossings in Bonnievale urban area, at the station and at the Golf club.</p> <p>Rural area at Drew and several on minor roads.</p>
<p>More Important causeway and Secondary Bridges: Breede River “Rooibrug” in the vicinity of Goudmyn (R317) Konings River: Near the Konings River farm. Situated in the Konings River road (dirt road). Houtbaais River: Situated on the dirt road between McGregor and the Konings River. Poesjesnells River: Near Wansbek in die Le Chasseur/Agterkliphoopte road and the farm at Le Chasseur. Willemnells River Causeway Bridge at Brandewynsdraai (Die Dros) Causeway Bridge at the cemetery (en route to Wolfkloof) Causeway Bridge at Dassieshoek Nature Reservation en route to the farm Die Laaitjie. Hoops River Causeway Bridge at the farm Roode Hoogteplaas. Causeway Bridge in Johan de Jongh avenue – near the correctional service facility Bridge at Van Zyl Street</p>	<p>More Important causeway and Secondary Bridges: Bonnievale Breede River bridge: near Parmalat factory, Die Plaat causeway in Angora Street at the urban fringe over Breede River Drew Causeway Montagu Van der Merwe Bridge: R62 (Lang Street) over Kingna Rivers Voortrekkers Bridge: R62(Lang Street) over confluence of Kingna and Keisie Rivers Loftus Bridge: R62 rural over Cogmanskloof river Boy Retief Bridge: R62 rural over Cogmanskloof river Ashton Bridge: R62 rural over Cogmanskloof river Cogmanskloof Bridge: R317 over Cogmanskloof river near farm Goudmyn Keisie river bridge: R318 over Keisie River near the farm Drieberge</p> <p>Koo Bridge: On R318 over Koo river, near the farm Concordia.</p>

<p>Bridge at Truter Street Bridge at Church Street Causeway bridge at Hoop Street Bridge at Adderly Street Causeway bridge at Constitution Street Bridge at Voortrekker Street Vink River Bridge on R60 Causeway bridge at the farm Goree Causeway bridge at Rooiberg Cellar Noree River Causeway bridge at the farm Goree. Droë River: Paddy Street bridge – situated on the Keurkloof road Causeway bridge in Doornbos Street (between Rolbos and Peper bos Streets</p>	<p>Most deep rural roads are inundated with causeways that are regularly flooded and could be deemed important for emergency service rendering during such incidents and rural farms are dependent on aerial support during incidents.</p>			
<p>Sewage pipelines Locality:</p>	<p>To be indicated on risk specific plan for particular discipline.</p>			
<p>Water pipelines Locality</p>	<p>To be indicated on risk specific plan for particular discipline.</p>			
<p>Electrical Power Supply Location</p>	<p>To be indicated on risk specific plan for particular discipline.</p>			
<p>Tele Communication</p>	<p>Telecommunication services are provided via Telkom under and above ground lines to a centrally situated centre situated at Van Reenen Street, Robertson and micro-wave equipment at Galgeberg, McGregor, Laatsrivier and Sandvlei, Koo. Three (3) cellular networks have coverage stations at Muiskraalskop, Rooiberg, Galgeberg, Knipe's Hope and generally along the main routes. Internal communication i.e. telephones, facimilee, cellphone services and radio communication (presently area and discipline limited) are used.</p>			
<p>Halls (Community and Other)</p>	<p>ROBERTSON Robertson Town Hall Robertson Civic Hall Nkqubela Community Hall Callie de Wet Hall Zolani Hall King Edward Sport Hall MCGREGOR McGregor Community Hall</p>	<p>Church Street Hospital Ave Ngonyama Street Church Street Building Street Piet Retief Street Voortrekker Street</p>	<p>BONNIEVALE Bonnievale Community Hall Happy Valley Hall Chris Van Zyl Hall Happy Valley Sport grounds MONTAGU Hofmeyer Hall King Edward Hall Montagu Community Hall ASHTON Ashton Town Hall Barnard Hall Rolihlahla Community Hall</p>	<p>New Cross Street New Cross Street Voortrekker Road Milner Street Bath Street Piet Retief Street Wilhelm Thys Avenue Swart Street Uitspan Street Building Street</p>
<p>Hospital (Provincial)</p>	<p>Robertson Hospital: 40 Beds available. Doctors 3. Nursing staff: 45. Montagu Hospital: 40 beds available. Doctors: 3 Nursing staff: 34</p>			

LANGEBERG MUNICIPALITY DISASTER RISK ASSESSMENT (AFRICON) 2007

- Please note: As Assessments are contained in documents referring to the old name of the municipality and due to being directly cited, the names cannot be changed.

Risk Prioritisation Table for Breede River Local Municipality

Hazard	Exposure	Severity	Probability	Actions Needed
Fires	Occasional	Moderate	Normal	Preparedness Planning
Floods	Occasional	Extreme	Likely	Risk Reduction interventions and Preparedness Planning
Rail Derailment	Occasional	Moderate	Normal	Urgent Risk Reduction intervention

Risk Prioritisation Table for Breede River Local Municipality

Hazard	Awareness	Legislative Framework	Early Warning Systems	Government Resources	Exising Risk Reduction Measures	Public Participation	Municipal Management Capabilities
Fires	Poor	Good	Poor	Poor	Poor	Modest	Good
Floods	Poor	Modest	Modest	Modest	Poor	Modest	Good
Rail Derailment	Poor	Poor	Poor	Poor	Poor	Modest	Good

Relative Risk Priorities for Breede River Local Municipality

Hazard	Total Risk	Total Risk Manageability	Relative Risk Priority	Actions Needed
Fires	Tolerable	Modest	Safe	Preparedness Planning
Floods	Destructive	Modest	Tolerable	Risk Reduction interventions and Preparedness Planning
Rail Derailment	Destructive	Modest	Destructive	Urgent Risk Reduction intervention

CPUT: COMMUNITY BASED RISK ASSESSMENT (2008)

LANGEBERG MUNICIPALITY			
	LIKELY	NORMAL	UNLIKELY
Floods	22	0	0
Water management	21	1	0
Hazardous loads	17	3	0
Drought	16	4	0
Electricity theft	14	5	0
Economic vulnerability	11	10	1
Veld fire	10	9	0
Epidemics	9	10	0
Road infrastructure	7	13	4
Dangerous installations	4	16	2
Rapid development	4	3	14
Erosion	1	19	1
Structural fire	0	20	0
Bus accidents	0	18	3
Earthquakes	0	6	15
Nuclear spill-over	0	0	16

2009/2010 DISASTER RISK REDUCTION PROJECTS CAPEX

Depicted due to Disaster Flood Funds received: some projects continuing during the 2010/2011 financial year

CAPITAL BUDGET 2009/2010 (EXP ON 30 JUNE 2010)

Project	Budget	Total Expenditure	% Expenditure vs Budget
INFORMATION & COMMUNICATION TECHNOLOGY			
Disaster Recovery	R 400,000.00	R 398,924.65	
Disaster Recovery - own funds	R 140,587.00	R 139,087.09	
TOTAL INFORMATION & COMM. TECHNOLOGY	R 540,587.00	R 538,011.74	99.52%
HOUSING			
Building of Houses	R 6,955,485.00	R 9,131,940.73	
Infill Houses Robertson	R 2,833,715.00	R 2,164,033.33	
Land Acquisition McGregor	R 1,240,000.00	R 513,641.73	
Services Infill Houses Ashton	R 150,000.00	R 92,981.40	
Sewerage Nkqubela Robertson	R 300,000.00	R 376,081.12	
Installation of Services-Bonnievale Squatter Camp	R 210,000.00	R 14,166.84	
Building of Houses-Happy Valley Bonnievale	R 2,266,972.00	R 2,587,035.42	
Building of Houses-Mandela Square Montagu	R 2,730,671.00	R 3,025,215.47	
Building of Houses-Zolani Ashton	R 3,348,936.00	R 6,286,146.65	
Building of Igloo Houses Robertson	R 515,221.00	R 869,274.15	
Streets-Zolani Karpad Ashton	R 3,500,000.00	R 2,703,636.53	
Sewerage-Zolani Ashton	R 900,000.00	R 899,210.54	
Electrification Projects-Housing	R 2,700,000.00	R 1,295,876.61	
Emergency Housing	R 72,340.00	R 0.00	
TOTAL HOUSING	R 27,723,340.00	R 29,959,240.52	108.07%
SEWERAGE			
Upgrading Bonnievale Sewerage Treatment Plant	R 155,000.00	R 154,939.21	
TOTAL SEWERAGE	R 155,000.00	R 154,939.21	99.96%

ROADS & STREETS			
Tarring of Roads	R 4,200,000.00	R 4,200,000.00	
Flood Damage	R 3,500,000.00	R 999,984.89	
TOTAL ROAD TRANSPORT	R 7,700,000.00	R 5,199,984.89	67.53%
WATER			
Replacement / Upgrading of Water Network	R 7,065,900.00	R 6,287,813.16	
Upgrading of water Reservoir McGregor	R 681,100.00	R 679,672.80	
Upgrading of water treatment work Montagu	R 6,200,000.00	R 6,208,771.40	
Upgrading of water treatment work Montagu	R 1,600,000.00	R 1,599,999.99	
Robertson Bulk Water Provision	R 1,100,000.00	R 1,136,750.00	
TOTAL WATER	R 16,647,000.00	R 15,913,007.35	95.59%
ELECTRICAL ENGINEERING			
Electricity for Houses	R 601,727.00	R 501,771.67	
Electricity for Houses-McGregor Squatter Camp	R 20,000.00	R 7,813.20	
Electricity for Houses-Infill Houses	R 176,000.00	R 134,584.20	
Electricity for Houses-Nkqubela Houses	R 55,000.00	R 53,594.17	
Electricity for Houses-Igloo Houses	R 29,000.00	R 10,237.81	
Electricity for Houses-Zolani	R 191,000.00	R 155,064.47	
Electricity for Houses-Bonnievale	R 123,373.00	R 122,542.54	
Relocation of electrical connections for new housing project	R 499,000.00	R 212,731.55	
TOTAL ELECTRICAL ENGINEERING	R 1,695,100.00	R 1,198,339.61	70.69%
ENVIRONMENTAL SERVICES			
Flood Damage	R 681,000.00	R 113,561.21	
TOTAL ENVIRONMENTAL SERVICES	R 681,000.00	R 113,561.21	16.68%
CLEANSING			
Compactor	R 1,467,425.00	R 1,467,425.00	
Recycling Plant	R 410,000.00	R 331,410.14	
Transfer Stations McGregor	R 500,000.00	R 377,900.82	
Electrification-Recycling Plant	R 165,550.00	R 15,327.71	
TOTAL CLEANSING	R 2,542,975.00	R 2,192,063.67	86.20%
GRAND TOTAL	R 57,685,002.00	R 55,269,148.20	95.81%

2010/2011 DISASTER RISK REDUCTION PROJECTS CAPEX PROJECTS

Project	Budget
INFORMATION & COMMUNICATION TECHNOLOGY	
Disaster Recovery	R 400,000.00
Disaster Recovery - own funds	R 140,587.00
TOTAL INFORMATION & COMM. TECHNOLOGY	R 540,587.00
ROADS & STREETS	
Flood Damage	R 2,850,511.00
TOTAL ROADS & STREETS	R 2,850,511.00
HOUSING	
Building of Houses	R 6,955,485.00
Infill Houses Robertson	R 2,833,715.00
Land Acquisition McGregor	R 1,240,000.00
Services Infill Houses Ashton	R 150,000.00
Sewerage Nkqubela Robertson	R 300,000.00
Installation of Services-Bonnievale Squatter Camp	R 210,000.00
Building of Houses-Happy Valley Bonnievale	R 2,266,972.00
Building of Houses-Mandela Square Montagu	R 2,730,671.00
Building of Houses-Zolani Ashton	R 3,348,936.00
Building of Igloo Houses Robertson	R 515,221.00
Streets-Zolani Karpad Ashton	R 3,500,000.00
Sewerage-Zolani Ashton	R 900,000.00
Electrification Projects-Housing	R 2,700,000.00
Emergency Housing	R 72,340.00
TOTAL HOUSING	R 27,723,340.00
SEWERAGE	
Upgrading Bonnievale Sewerage Treatment Plant	R 155,000.00
TOTAL SEWERAGE	R 155,000.00
ROADS & STREETS	
Tarring of Roads	R 4,200,000.00
Flood Damage	R 3,500,000.00
TOTAL ROAD TRANSPORT	R 7,700,000.00
WATER	
Replacement / Upgrading of Water Network	R 7,065,900.00
Upgrading of water Reservoir McGregor	R 681,100.00
Upgrading of water treatment work Montagu	R 6,200,000.00
Upgrading of water treatment work Montagu	R 1,600,000.00
Robertson Bulk Water Provision	R 1,100,000.00
TOTAL WATER	R 16,647,000.00

ELECTRICAL ENGINEERING	
Electricity for Houses	R 601,727.00
Electricity for Houses-McGregor Squatter Camp	R 20,000.00
Electricity for Houses-Infill Houses	R 176,000.00
Electricity for Houses-Nkqubela Houses	R 55,000.00
Electricity for Houses-Igloo Houses	R 29,000.00
Electricity for Houses-Zolani	R 191,000.00
Electricity for Houses-Bonnievale	R 123,373.00
Relocation of electrical connections for new housing project	R 499,000.00
TOTAL ELECTRICAL ENGINEERING	R 1,695,100.00
ENVIRONMENTAL SERVICES	
Flood Damage	R 681,000.00
TOTAL ENVIRONMENTAL SERVICES	R 681,000.00
CLEANSING	
Compactor	R 1,467,425.00
Recycling Plant	R 410,000.00
Transfer Stations McGregor	R 500,000.00
Electrification-Recycling Plant	R 165,550.00
TOTAL CLEANSING	R 2,542,975.00
GRAND TOTAL	R 60,535,513.00

GENERIC DISASTER MANAGEMENT PREPAREDNESS PLAN

STANDARD PROCEDURES: CHAIN OF EVENTS DURING ANY SERIOUS/POTENTIAL DISASTER INCIDENT

1. The incident is reported to a responsible discipline or other instance/person (e.g. the 24 hour complaint centre).
 - 1.1. The responsible Discipline head informs the Manager: Disaster Management.
 - 1.2. The Manager: Disaster Management reports the incident to:
 - 1.2.1. Municipal Manager (Langeberg Municipality);
 - 1.2.2. Relevant Directors;
 - 1.2.3. Relevant OMT members;
 - 1.3. The Head: Disaster Operations (CWDM) reports the incident to:
Municipal Manager or delegated person;
 - 1.3.1. CWDM Head of Department 021 888 5304 071 156 0840
 - 1.3.2. SAPS Commander: Lt Col Rall (082N4691058)/Col Alexander (082 77969120) 023 626 8340
 - 1.3.3. Provincial Traffic Swellendam 028 514 1185 /0716784117
 - 1.3.4. Provincial Traffic Worcester 023 342 2357/08341420003
 - 1.3.5. Spoornet 023 348 4241
 - 1.3.6. Department of Water Affairs and Forestry 023 348 5600
 - 1.3.7. Provincial Disaster Management Centre 021 937 0808 083 577 1100
 - 1.3.8. District Health Officials 023 626 8300
2. The Manager Disaster Management reports the incident to:
 - 2.1. Director: Community Services 023 614 8000 Cell Phone Number: 082 8948025
 - 2.2. Role Players as per schedule.
 - 2.3. All discipline heads arrange for immediate size-up of the incident regarding the impact it has on his/her particular discipline, to determine:
 - 2.3.1. damage to infra-structure (e.g. water delivery, sewage, electricity, roads/bridges, roadways, housing and commercial/industrial institutions)
 - 2.3.2. life and property threatening situations;
 - 2.3.3. immediate mitigation operations;
 - 2.3.4. Auxiliary resource needs (e.g. private contractors, specialist equipment, other external institutions/organisations, including NGO's)
 - 2.3.5. projected short term and long term implications of the incident
 - 2.3.6. the impact the incident has on road and access for emergency transport and teams to the incident;
 - 2.3.7. any other aspect that needs immediate response for rapid service delivery continuation.
 - 2.4. The DMOC (Disaster Management Operations Centre (via the members of the OMT) performs the following functions:
 - 2.4.1. Co-ordinates mitigation operations according to priorities for:
 - 2.4.1.1. early warning of potentially afflicted areas;
 - 2.4.1.2. the saving of lives;
 - 2.4.1.3. emergency housing;
 - 2.4.1.4. emergency rations;
 - 2.4.1.5. other disaster management mitigation strategies;
 - 2.4.2. Keeps record of all incidents/events and actions and informs all strategic role-players and control centres at least once per hour regarding developments.

CORE DISASTER MANAGEMENT PREPAREDNESS PLAN: CONTACT LIST

Action	Responsibility
1.Establishment of a DMOC (Disaster Management Operation Centre)	Manager: Disaster Management
Resources	
Mr J Durand (Langeberg Mun.) Manager: Disaster Management	Mr. R.C. Veldtmann Senior Disaster Management Officer: Disaster Management (CWDM)
Representation of all Disciplines as per need/request	

Role Players		Contact Details			
Name		Telephone	Cellular Telephone	Facsimile	E-mail
Convenors: Disaster Management Operation Centre (DMOC)					
JJ Durand	Manager DM	023 615 2340	833 201073	023 615 2022	jdurand@langeberg.gov.za
R Veldtmann	Sr Officer DM (CWDM)	023 626 3456	082 7700848	023 626 3456	rcv@lando.co.za
Executive Management Team					
SA Mokweni	Municipal Manager (LM)	023 615 8001	082 8204036	023 615 1563	smokweni@langeberg.gov.za
Mr MJ Mhlom	Director Community Services	023 614 8037	0828948025	023 614 1841	jmhlo@langeberg.gov.za
Mr. J. de K Jooste	Director: Infrastructure Development	023 616 8002	0836351064	023 616 2937	jjooste@langeberg.gov.za
Mr CF Hoffmann	Chief Financial Officer	023 615 8032	0828960630	023 615 1563	choffmann@langeberg.gov.za
Mr. AWJ Everson	Director: Corporate Services	023 615 8006	0827716609	023 615 1563	aeverson@langeberg.gov.za
OMT (Operational Management Team)					
Mr J. Coetzee	Manager General Administration	023 615 8011		023 615 1563	jcoetzee@langeberg.gov.za
Mr T Carstens	Manager: Human Resources	023 615 8035	0824189672	023 615 1563	tcarstens@langeberg.gov.za
Ms. S. Kotzé	Manager: Property Administration	023 615 8019	0829053728	023 615 1563	skotze@langeberg.gov.za
Mr. HJ Kritzinger	Manager: Budget and Support Services	023 615 8031	0788019041	023 615 1563	ckrtzinger@langeberg.gov.za
Mr. M Johnson	Manager: Civil Engineering Services (East)	023 615 8059	0827716613	023 615 1563	mjohnson@langeberg.gov.za
Mr. N Koegelenberg	Manager: Civil Engineering Services (West)	023 626 8248	0825777775	023 626 2426	nkoegelenberg@langeberg.gov.za
Mr. J Rossouw	Manager: Electrical Services	023 626 4960	0828960628	023 626 5532	jrossouw@langeberg.gov.za
Mr A Qhanqiso	Asst Manager: Electrical Services (West)	023 626 4960	0745877638	023 626 5532	
Mr C Vorster	Asst Manager: Electrical Services (East)	023 614 8036	0827702371	023 614 1841	cvorster@langeberg.gov.za

Name		Telephone	Cellular Telephone	Facsimile	E-mail
Mr JJ Van Rooyen	Manager: New Housing	023 626 8289	0825800080	023 626 2426	jvnrooyen@langeberg.gov.za
Mr JV Brand	Manager: Town Planning	023 614 8003	0828204035	023 614 1841	kbrand@langeberg.gov.za
Ms Z Lesia	Manager: Environmental Services (West)	023 626 8203	0788012482	023 626 2426	zlesia@langeberg.gov.za
Mr D Steyn	Manager: Environmental Services (East)	023 615 8024	0823353108	023 615 1563	dsteyn@langeberg.gov.za
Mr P Wentzel	Manager: Traffic Services	023 626 8251	083 6328195	023 626 8550	pwentzel@langeberg.gov.za

SECTION B

CORE DOCUMENTS AND PLANNING BASE: CORPORATE DISASTER MANAGEMENT PLAN

1.0 Introduction

This plan confirms the arrangements for managing disaster risk and for preparing for- and responding to disasters within the Langeberg Municipality as required by the Disaster Management Act, 2002 (Act 57 of 2002).

2.0 Legal requirements

The mandatory requirements (in terms of the Disaster Management Act, 2002 (Act 57 of 2002) – hereafter referred to as “the Act”) for a Municipal Disaster Management Plan for the Langeberg Municipality are:

To prepare a disaster management plan for its area according to the circumstances prevailing in the area and within the ambit of its municipal disaster management framework.

The disaster management plan for a municipality must form an integral part of the municipality’s integrated development plan (IDP) (Section 53(2)(a))

“Applicable disaster management plans” are deemed core components of an IDP (Government: Municipal Systems Act, 2000 (Act 32 of 2000)).

a District Municipality and local municipalities within the area of the district municipality must prepare their disaster management plans after consulting each other (Section 53(3)).

The Disaster Management (DM) plan, and of any amendment to the plan, must be submitted to the Disaster Management Centre of the Western Cape Province and the National Disaster Management Centre (Section 53(4)).

3.0 Key outcomes

This plan seeks to achieve the following key outcomes:

- Integration of Disaster Risk Management into the strategic and operational planning and project implementation of all line functions and role players within the municipality.
- Integration of Disaster Management Mitigation strategies and projects within the plan;
- Submission of the Disaster Management Plan to relevant Governmental structures, i.e. Disaster Management Control Centres of CWDM, Western Cape Province and the National Disaster Management Disaster Control Centre;
- An integrated, fast and efficient response to emergencies and disasters by all role-players.

4.0 Linkage with the Integrated Development Plan of the Langeberg Municipality

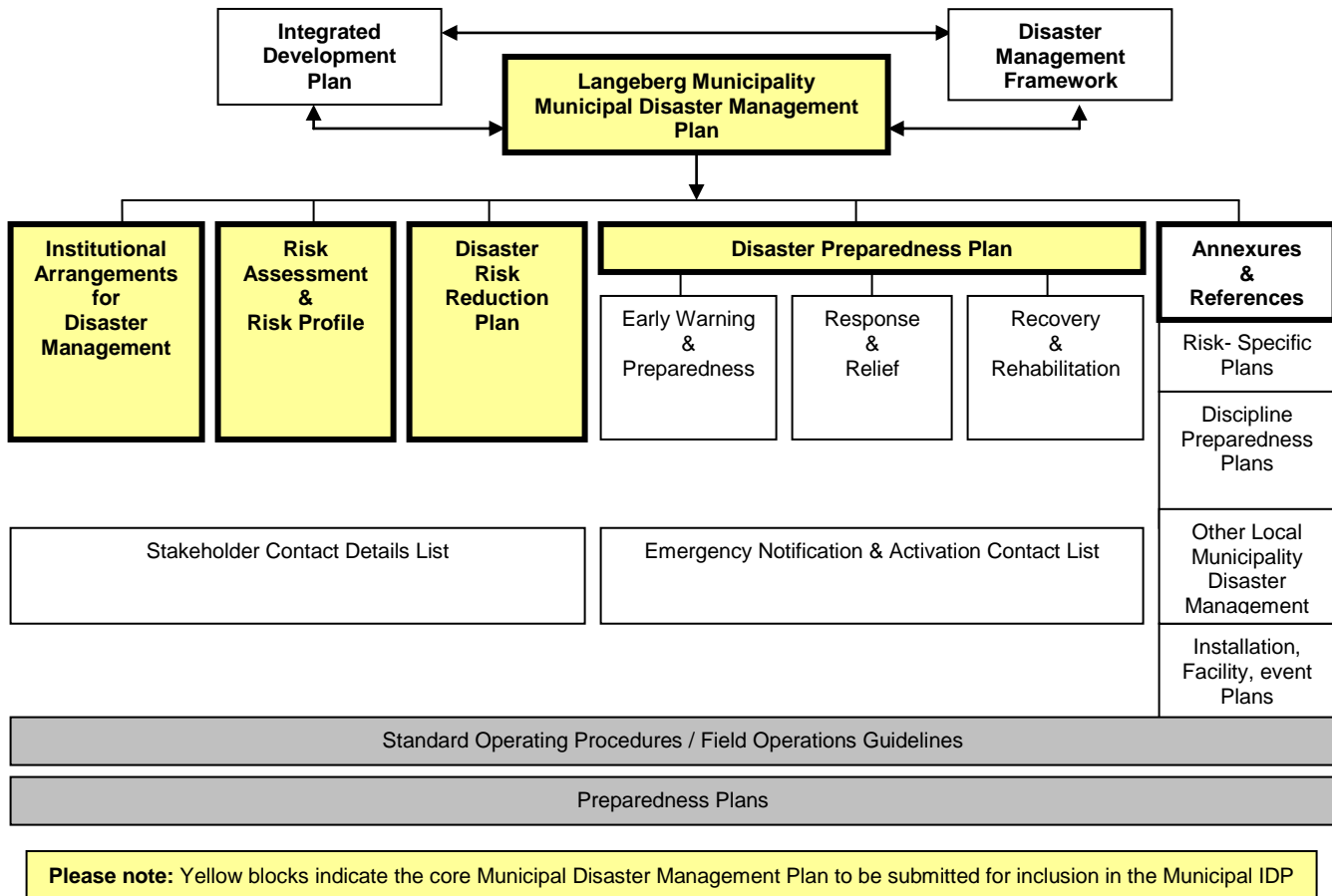
Both the Municipal Systems Act and the Disaster Management Act requires the inclusion of as an integral component of this plan into the Integrated Development Plan (IDP) of the Langeberg Municipality.

5.0 Linkage with the Disaster Management Framework of the Langeberg Municipality

The Langeberg Municipality must prepare and execute its disaster management plan within its disaster management framework. The National, Western Cape Provincial and Cape Winelands District Municipal Disaster Management frameworks will guide the development of this plan and future versions of this plan.

6.0 Structure of the plan

The Municipal Disaster Management Plan of the Langeberg Municipality consists of the components as indicated in the figure below.



7.0 Institutional Arrangements

7.1 Shared responsibility for disaster management

The responsibility for reducing disaster risk, preparing for disasters, and responding to disasters is shared among:

- all disciplines and employees of the Langeberg Municipality;
- all disciplines and employees of the Cape Winelands District Municipality;
- neighbouring local municipalities within the Cape Winelands District Municipality;
- all provincial and national organs of state operating within the municipality;
- all sectors of society within the municipality;

- all the residents of the municipality.

7.2 Nodal points for disaster management

The Manager: Disaster Management of the Langeberg Municipality, must *direct* and *facilitate* the disaster risk management process. However, this incumbent cannot perform the whole spectrum of disaster risk management activities on his/her own. Disaster Management is **not a line** function, but an advisory coordinative function.

Disaster risk management is everybody's business.

It is required that each municipal discipline within the Municipality assigns a person or section within each discipline to be the nodal point for disaster management activities in that particular discipline.

The Manager in each discipline is assigned this responsibility.

The disaster management activities performed within disciplines include participation in disaster risk reduction strategies as well as preparedness and response.

The Manager: Disaster Management of the Langeberg Municipality will regularly (at least once quarterly) update contact details of responsible Managers to ensure that the Plan remains current. This will reduce the possibility of changes in the management structure not being reflected in the plan.

7.3 Disciplines with primary responsibility for specific hazards and disaster risks

Where a discipline has primary responsibility for a specific hazard, the discipline's role in disaster risk management for that specific hazard will be more than mere participation: it will have to lead risk reduction as well as preparedness activities due to its expertise in the field.

The Langeberg Disaster Management can support such a discipline with advice, information, facilitation and coordination. The Manager: Disaster Management will attend any relevant meetings as pre request for the identification of disaster management mitigation projects and give inputs.

The description of risks and hazards are contained in the Disaster Management Plan and the specific plans for mitigation, relief, recovery and rehabilitation included.

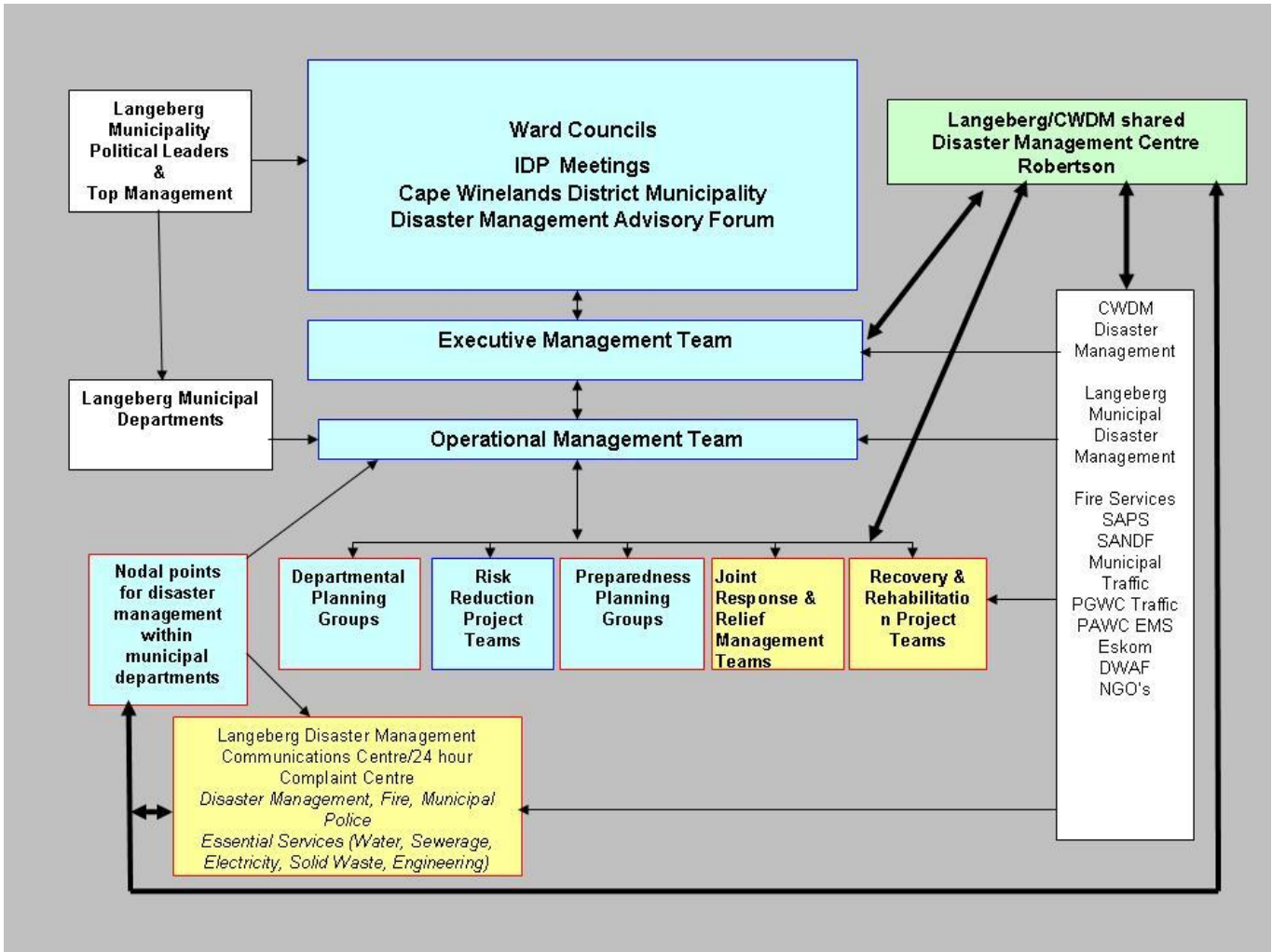
7.4 Assignment of responsibility to deal with specific disaster risks

Disciplines that are responsible for specific services in normal conditions will remain responsible for such services during disasters. The declaration of a state of disaster and the tighter coordination instituted during disasters does not absolve any agency of its assigned responsibilities.

7.5 Corporate Disaster Management Structure for the Langeberg Municipality

The Corporate Disaster Management structure for the Langeberg Municipality must deal with both pro-active and reactive disaster management issues and encompasses more than the discipline which is responsible for the function. It is envisaged that the normal municipal structures are used. Due to the fact that Pro-active and Re-active Processes differ, the following structures are in place:

Corporate Disaster Management Structure



7.6 Cape Winelands Disaster Management Centre

The Langeberg Municipality is not legally obliged to establish a Disaster Management Centre.

A fully established and functioning Municipal Disaster Management Centre (DMC) is a key element of this plan. Therefore the Langeberg Municipality consults with and operates in close collaboration with the Cape Winelands District Disaster Management Centre.

The Disaster Management Centre of the Cape Winelands District Municipality must aim to prevent or reduce the risk of disasters, mitigate the severity or consequences of disasters, prepare for emergencies, respond rapidly and effectively to disasters and to implement post-disaster recovery and rehabilitation within the municipality by monitoring, integrating, co-ordinating and directing the disaster risk management activities of all role players.

7.7 Municipal Disaster Management Advisory Forum

The Cape Winelands District Municipality has established a Disaster Management Advisory Forum. Various attempts to establish a Disaster Management Sub-Advisory Forum in the Langeberg Local Municipality have failed, due to frequent changes in the management structures of NGO's and other role-players. All relevant role-players in the Langeberg Municipality are represented on the Disaster Management Advisory Forum and attend these meetings and duplication is deemed impractical.

7.8 Inter-Discipline Disaster Management co-ordination

Identified projects from the Disaster Management Structures can be implemented and tracked by the normal budgetary processes. The EMT (Executive Management Team) Meetings, as strategic body on the municipal structure serves as the coordination forum for disaster management issues within the municipality, whereas the OMT (Operational Management Team) deals with operational issues. The handling of disaster management issues is simply an extension of normal municipal functions and systems

7.9 Planning groups per Discipline

This element relates to planning groups that should be established within disciplines to deal with internal disaster management issues such as the compilation of disciplinary and contingency plans.

The establishment of such disaster management nodal points resides with the Managers of the various disciplines and these nodal points will be involved in these planning groups.

7.10 Risk reduction project teams

A multi-disciplinary project team convened to address and reduce a specific disaster risk/s. Convened by the primary role-player for the risk and supported by Disaster Management.

The primary role-players for specific hazards or disaster risks, in collaboration with the Manager: Langeberg Disaster Management, will establish and manage risk-reduction project teams as required or requested by the structures identified for the development of the IDP.

7.11 Joint response & relief management teams

These teams, normally flowing from a preparedness planning group, are multi-disciplinary teams that are mobilised to deal with the immediate response & relief required during or immediately after major incidents and disasters. Response and relief teams will normally convene in the Disaster Management Operational Centre (CWDM) on request.

7.12 Recovery & rehabilitation project teams

These are project teams managing recovery and rehabilitation after disasters, mostly on a project-management basis. Disaster recovery and rehabilitation focus on risk elimination or mitigation.

7.13 Langeberg Complaint Centre

This is the centre providing 24-hour emergency and essential services contact points to the public within the municipal area. The Centre is responsible for day-to-day emergency response by municipal disciplines and for the establishment of strategic communication links.

The Langeberg Complaint Centre will liaise closely with the Emergency Services Control Centres (SAPS, PAWC, CWDM) and other stakeholders within the Langeberg Municipality on an ongoing basis.

7.14 Langeberg Disaster Management Operational Centre (DMOC)

The Langeberg DMOC has been established at the Cape Winelands District Municipal facility in Robertson as this authority (District Municipality) is responsible for coordination during disasters.

This facility is equipped to serve as command and coordination centre during disasters, where the joint response & relief management team will convene. Alternative facilities should the DMOC not be accessible are available in all towns and the DMOC can be moved on short notice.

During any event which necessitates multi-disciplinary co-ordination, the Manager: Disaster Management will activate the DMOC.

8.0 Risk Assessment

Various disaster risks for the Langeberg Municipality have been identified and assessed during risk assessments executed during 2005 (Technological) and 2008 (Community based).

The risk assessment was done by respectively Africon Engineering and CPUT under instruction of the CWDM for all municipalities falling within the auspices of the District.

The Technical risk and vulnerability assessment by Africon led to the following resultant profile, as depicted by the following table:

8.1 Disaster Risk Assessment: Africon

“7.5 Results of analysis per local municipality

‘...7.5.1 Breede River

Risk Prioritisation Table for Breede River Local Municipality

Hazard	Exposure	Severity	Probability	Actions Needed
Fires	Occasional	Moderate	Normal	Preparedness Planning
Floods	Occasional	Extreme	Likely	Risk Reduction interventions and Preparedness Planning
Rail Derailment	Occasional	Moderate	Normal	Urgent Risk Reduction intervention

Risk Prioritisation Table for Breede River Local Municipality

Hazard	Awareness	Legislative Framework	Early Warning Systems	Government Resources	Existing Risk Reduction Measures	Public Participation	Municipal Management Capabilities
Fires	Poor	Good	Poor	Poor	Poor	Modest	Good
Floods	Poor	Modest	Modest	Modest	Poor	Modest	Good
Rail Derailment	Poor	Poor	Poor	Poor	Poor	Modest	Good

Relative Risk Priorities for Breede River Local Municipality

Hazard	Total Risk	Total Risk Manageability	Relative Risk Priority	Actions Needed
Fires	Tolerable	Modest	Safe	Preparedness Planning
Floods	Destructive	Modest	Tolerable	Risk Reduction interventions and Preparedness Planning
Rail Derailment	Destructive	Modest	Destructive	Urgent Risk Reduction intervention

8.2 CPUT: Community Based Risk Assessment

Numerous work-shops were held in the Langeberg Municipality, and a wide spectrum of communities and applicable role-players were involved during the information gathering sessions during the process (2008).

The results of the assessment, in tabular form, are as follows:

LANGEBERG MUNICIPALITY			
	LIKELY	NORMAL	UNLIKELY
Floods	22	0	0
Water management	21	1	0
Hazardous loads	17	3	0
Drought	16	4	0
Electricity theft	14	5	0
Economic vulnerability	11	10	1
Veld fire	10	9	0
Epidemics	9	10	0
Road infrastructure	7	13	4
Dangerous installations	4	16	2
Rapid development	4	3	14
Erosion	1	19	1
Structural fire	0	20	0
Bus accidents	0	18	3
Earthquakes	0	6	15
Nuclear spill-over	0	0	16

The above lists illustrate the types of disasters that pose the highest risks within the area of the Langeberg Municipality and their possible effects. The communities at risk can be derived from the risk lists, and are also shown in the risk assessment that was conducted for the area.

To form a more realistic profile, it would be necessary to combine the two profiles and then indicate priorities – especially as some of the areas of risks identified falls out of the scope of Municipal service delivery.

It will be seen from Disaster Management Risk reduction projects identified that common elements present in both risk profiles are addressed.

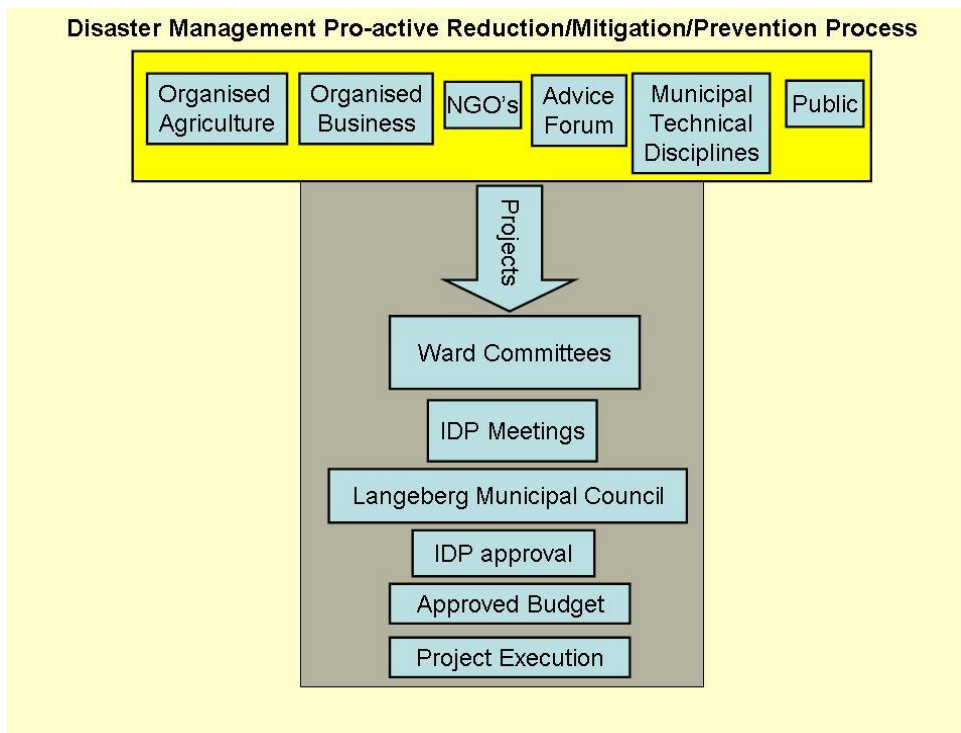
9.0 Disaster Risk Reduction Plans

Disaster risk reduction plans providing for prevention and mitigation strategies have been compiled through the participative processes and structures and are included in the CAPEX for the financial year.

Where the proposed disaster risk reduction project falls outside the mandate of the municipality, it is the responsibility of the Manager: Disaster Management to present the particular problem/project to the Cape Winelands District Advisory Forum for inclusion and consideration by the applicable discipline.

9.1 Risk reduction capacity for the Langeberg Municipality

The Risk reduction capacity and structure for Disaster Risk Reduction is as follows:



The total structure of the municipality, with every member of personnel and every resource should also be committed to disaster risk reduction.

It is vital that the Disaster Risk Reduction measures are included in the plan, as, inter alia, it becomes a mandatory issue with the declaration of a local disaster. In terms of Section 56 of the Act any financial assistance provided by a national, provincial or municipal organ of state may take into account:

- Whether any prevention and mitigation measures were taken, and if not, the reasons for the absence of such measures;

- Whether it is reasonable to expect that prevention and mitigation measures should have been taken in the circumstances;
- Whether the damage caused by the disaster is covered by adequate insurance, and if not, the reasons for the absence or inadequacy of insurance cover.

Due to the fact that the funds after the declaration of the local disaster 2008 only became available during the financial year, it is necessary to provide the expenditure of the 1009/10 financial year, as some projects are continuing during the 2010 2011 financial year.

9.2 Disaster Risk Reduction Projects 2009/2010

CAPITAL BUDGET 2009/2010			
Expenditure as on 30 June 2010			
Project	Budget	Total Expenditure	% Expenditure vs Budget
INFORMATION & COMMUNICATION TECHNOLOGY			
Disaster Recovery	R 400,000.00	R 398,924.65	
Disaster Recovery - own funds	R 140,587.00	R 139,087.09	
TOTAL INFORMATION & COMM. TECHNOLOGY	R 540,587.00	R 538,011.74	99.52%
HOUSING			
Building of Houses	R 6,955,485.00	R 9,131,940.73	
Infill Houses Robertson	R 2,833,715.00	R 2,164,033.33	
Land Acquisition McGregor	R 1,240,000.00	R 513,641.73	
Services Infill Houses Ashton	R 150,000.00	R 92,981.40	
Sewerage Nkqubela Robertson	R 300,000.00	R 376,081.12	
Installation of Services-Bonnievale Squatter Camp	R 210,000.00	R 14,166.84	
Building of Houses-Happy Valley Bonnievale	R 2,266,972.00	R 2,587,035.42	
Building of Houses-Mandela Square Montagu	R 2,730,671.00	R 3,025,215.47	
Building of Houses-Zolani Ashton	R 3,348,936.00	R 6,286,146.65	
Building of Igloo Houses Robertson	R 515,221.00	R 869,274.15	
Streets-Zolani Karpad Ashton	R 3,500,000.00	R 2,703,636.53	
Sewerage-Zolani Ashton	R 900,000.00	R 899,210.54	
Electrification Projects-Housing	R 2,700,000.00	R 1,295,876.61	
Emergency Housing	R 72,340.00	R 0.00	
TOTAL HOUSING	R 27,723,340.00	R 29,959,240.52	108.07%
SEWERAGE			
Upgrading Bonnievale Sewerage Treatment Plant	R 155,000.00	R 154,939.21	
TOTAL SEWERAGE	R 155,000.00	R 154,939.21	99.96%

ROADS & STREETS			
Tarring of Roads	R 4,200,000.00	R 4,200,000.00	
Flood Damage	R 3,500,000.00	R 999,984.89	
TOTAL ROAD TRANSPORT	R 7,700,000.00	R 5,199,984.89	67.53%
WATER			
Replacement / Upgrading of Water Network	R 7,065,900.00	R 6,287,813.16	
Upgrading of water Reservoir McGregor	R 681,100.00	R 679,672.80	
Upgrading of water treatment work Montagu	R 6,200,000.00	R 6,208,771.40	
Upgrading of water treatment work Montagu	R 1,600,000.00	R 1,599,999.99	
Robertson Bulk Water Provision	R 1,100,000.00	R 1,136,750.00	
TOTAL WATER	R 16,647,000.00	R 15,913,007.35	95.59%
ELECTRICAL ENGINEERING			
Electricity for Houses	R 601,727.00	R 501,771.67	
Electricity for Houses-McGregor Squatter Camp	R 20,000.00	R 7,813.20	
Electricity for Houses-Infill Houses	R 176,000.00	R 134,584.20	
Electricity for Houses-Nkqubela Houses	R 55,000.00	R 53,594.17	
Electricity for Houses-Igloo Houses	R 29,000.00	R 10,237.81	
Electricity for Houses-Zolani	R 191,000.00	R 155,064.47	
Electricity for Houses-Bonnievale	R 123,373.00	R 122,542.54	
Relocation of electrical connections for new housing project	R 499,000.00	R 212,731.55	
TOTAL ELECTRICAL ENGINEERING	R 1,695,100.00	R 1,198,339.61	70.69%
ENVIRONMENTAL SERVICES			
Flood Damage	R 681,000.00	R 113,561.21	
TOTAL ENVIRONMENTAL SERVICES	R 681,000.00	R 113,561.21	16.68%
CLEANSING			
Compactor	R 1,467,425.00	R 1,467,425.00	
Recycling Plant	R 410,000.00	R 331,410.14	
Transfer Stations McGregor	R 500,000.00	R 377,900.82	
Electrification-Recycling Plant	R 165,550.00	R 15,327.71	
TOTAL CLEANSING	R 2,542,975.00	R 2,192,063.67	86.20%
GRAND TOTAL	R 57,685,002.00	R 55,269,148.20	95.81%

9.3 Disaster Reduction Projects 2010/2011 CAPEX Projects

Project	Budget
INFORMATION & COMMUNICATION TECHNOLOGY	
Disaster Recovery	R 400,000.00
Disaster Recovery - own funds	R 140,587.00
TOTAL INFORMATION & COMM. TECHNOLOGY	R 540,587.00
ROADS & STREETS	
Flood Damage	R 2,850,511.00
TOTAL ROADS & STREETS	R 2,850,511.00
HOUSING	
Building of Houses	R 6,955,485.00
Infill Houses Robertson	R 2,833,715.00
Land Acquisition McGregor	R 1,240,000.00
Services Infill Houses Ashton	R 150,000.00
Sewerage Nkqubela Robertson	R 300,000.00
Installation of Services-Bonnievale Squatter Camp	R 210,000.00
Building of Houses-Happy Valley Bonnievale	R 2,266,972.00
Building of Houses-Mandela Square Montagu	R 2,730,671.00
Building of Houses-Zolani Ashton	R 3,348,936.00
Building of Igloo Houses Robertson	R 515,221.00
Streets-Zolani Karpad Ashton	R 3,500,000.00
Sewerage-Zolani Ashton	R 900,000.00
Electrification Projects-Housing	R 2,700,000.00
Emergency Housing	R 72,340.00
TOTAL HOUSING	R 27,723,340.00
SEWERAGE	
Upgrading Bonnievale Sewerage Treatment Plant	R 155,000.00
TOTAL SEWERAGE	R 155,000.00
ROADS & STREETS	
Tarring of Roads	R 4,200,000.00
Flood Damage	R 3,500,000.00
TOTAL ROAD TRANSPORT	R 7,700,000.00
WATER	
Replacement / Upgrading of Water Network	R 7,065,900.00
Upgrading of water Reservoir McGregor	R 681,100.00
Upgrading of water treatment work Montagu	R 6,200,000.00
Upgrading of water treatment work Montagu	R 1,600,000.00
Robertson Bulk Water Provision	R 1,100,000.00
TOTAL WATER	R 16,647,000.00

ELECTRICAL ENGINEERING	
Electricity for Houses	R 601,727.00
Electricity for Houses-McGregor Squatter Camp	R 20,000.00
Electricity for Houses-Infill Houses	R 176,000.00
Electricity for Houses-Nkqubela Houses	R 55,000.00
Electricity for Houses-Igloo Houses	R 29,000.00
Electricity for Houses-Zolani	R 191,000.00
Electricity for Houses-Bonnievale	R 123,373.00
Relocation of electrical connections for new housing project	R 499,000.00
TOTAL ELECTRICAL ENGINEERING	R 1,695,100.00
ENVIRONMENTAL SERVICES	
Flood Damage	R 681,000.00
TOTAL ENVIRONMENTAL SERVICES	R 681,000.00
CLEANSING	
Compactor	R 1,467,425.00
Recycling Plant	R 410,000.00
Transfer Stations McGregor	R 500,000.00
Electrification-Recycling Plant	R 165,550.00
TOTAL CLEANSING	R 2,542,975.00
GRAND TOTAL	R 60,535,513.00

10.0 Preparedness Plans

Preparedness plans are compiled in order to enable fast and efficient response to predicted and unpredicted emergencies.

10.1 Preparedness plans of the Langeberg Municipality

A generic preparedness plan has been compiled and is in operation. Each Manager is responsible to design and compile a risk preparedness plan for risks for his/her specific discipline.

10.2 Preparedness capacity for the Langeberg Municipality

The organisational structure for preparedness within the municipality includes Langeberg Disaster Management, The Executive Management Team of the Langeberg Municipality, and Joint Response & Relief Management Teams (appointed during multi-disciplinary events). Co-ordination will be applied by the DMOC in conjunction with the CWDM.

The total structure of the municipality, with every member of personnel and every resource forms part of preparedness capacity.

Ongoing capacity building programmes will be required to ensure the availability of adequate capacity for disaster preparedness.

11.0 Response & Recovery

During response and recovery operations the relevant disaster preparedness plans of the municipality will be executed by the disaster management structures (normal structures: executive functions by the EMT, operational functions by the OMT).

12.0 Declaration of a state of disaster and disaster classification

When a disastrous event occurs in the area of the municipality and the Municipal Manager regards the situation as a disaster in terms of the Act, he/she must

- initiate efforts to assess the magnitude and severity or potential magnitude and severity of the disaster;
- alert Disaster Management role players in the municipal area that may be of assistance in the circumstances;
- initiate the implementation of the disaster response plan or any contingency plans and emergency procedures that may be applicable in the circumstances; and
- inform the Cape Winelands, National and the Western Cape Provincial Disaster Management Centres of the disaster and its initial assessment of the magnitude and severity or potential magnitude and severity of the disaster.

Irrespective of whether a local state of disaster has been declared or not, the municipality is primarily responsible for the co-ordination and management of local disasters that occur in its area.

Whether or not an emergency situation is determined to exist, municipal and other agencies may take such actions under this plan as may be necessary to protect the lives and property of the inhabitants of the municipality.

12.1 Declaration of a local state of disaster:

In the event of a local disaster the municipal council may by notice in the provincial gazette declare a local state of disaster if existing legislation and contingency arrangements do not adequately provide for the municipality to deal effectively with the disaster; or other special circumstances warrant the declaration of a local state of disaster.

If a local state of disaster has been declared, the Council may make by-laws or issue directions, or authorise the issue of directions to:

- Assist and protect the public;
- Provide relief to the public;
- Prevent or combat disruption; or
- Deal with the destructive and other effects of the disaster.

13.0 Testing and review of the plan

The municipality will regularly review and update its plan, as required by Section 48 of the Disaster Management Act, 2002. The Disaster Management Advisory Forum shall be responsible for the review of the municipal disaster management plan on an annual basis.

Action: The DMAF will implement an annual review of this plan.

14.0 Annexures

Annexure A: Disaster Risk Reduction Plan for priority risks
Annexure B: Disaster Risk Preparedness Plan for priority risks
Annexure C: Emergency Numbers List for Langeberg

Annexure D: Advisory Forum Membership List

Annexures to be developed by the Langeberg Disaster Management Centre:

- Standard Operating Procedures and Field Operation Guides for each identified hazard
- Assignment of primary and supporting roleplayers for disaster risks
- Information and communication systems description
- Contact details for the Disaster Operations Centre representatives from the relevant role-players for each hazard.

15.0 Reference documents

Cape Winelands District Municipality Draft Disaster Management Framework

Cape Winelands District Municipality Community Based Risk Assessment, 2008.

Towards Disaster Management Plans for the Cape Winelands District Municipality (Hazard Identification, Vulnerability Assessment, and Risk Prioritisation), 2005

Sensitising document: Transport of Hazardous Materials in Bulk: Spoornet, Undated.

Agricultural Disaster Risk Management: Agricultural Drought Management Plan, Discipline of Agriculture, Aug 2007.

Emergency Preparedness and Response Plan, Drakenstein Local Municipality, March 2009.

Contingency Plan, Metrorail Western Cape, October 2008.

Hospital Emergency Plans, Medi-Clinic – Worcester, Paarl

Hospital Emergency Plans, Western Cape Discipline of Health

Outbreak response team

Education: Principal each school is responsible. Plan per school. Unannounced visits and testing of emergency plans. Schools must have plans for when things go wrong with transport. Organised into circuits.

Constitution of the Republic of South Africa, 1999.

Disaster Management Act, 2002 (Act 57 of 2002)

National Disaster Management Framework, 2005 (Government Notice 654 of April 2005: A

Policy Framework for Disaster Risk Management in South Africa)

Fire Brigade Services Act (Act 99 of 1997) as amended.

Fund Raising Act (Act No 107 of 1978) (FRA)

Local Government: Municipal Systems Act, 2000 (Act 32 of 2000).

Major Hazardous Installations Regulations of the Occupational Health and Safety Act

Road Traffic Act

Social Assistance Act, 1992 (Act no 59 of 1992)