



**EMG**

**BACKGROUND  
INFORMATION  
DOCUMENT**

**PROPOSED BULK WATER  
SCHEME: RURAL WATER  
SUPPLY PROGRAMME,  
MOROKWENG, NORTH WEST  
PROVINCE.**

**Environmental  
Management Group  
(PTY) Ltd**



**Compiled by:**  
*David Coetsee*  
*Public Participation Practitioner*

## 1. INTRODUCTION





Environmental Management Group (Pty) Ltd is the Professional Service Provider applying for Environmental Authorisation through the Basic Assessment process on behalf of the Dr Ruth Segomotsi Mompati District Municipality (DRSMDM) for the proposed bulk water supply for Morokweng, North West Province.

## 2. LOCALITY

The Dr Ruth Segomotsi Mompati District Municipality (DRSMDM) is currently constructing a potable water supply network to the Morokweng rural areas through the Regional Bulk Water Supply Scheme. The proposed development is located within the jurisdiction of the Kagisano-Molopo Local Municipality (KMLM), approximately 140 km northwest of Vryburg. The project area extends from Morokweng to Maheng and encompasses several villages, including Leeuaar, Morokwaneng, Kibitwe, and Garapipa. The study area is situated in the North West Province.

### PURPOSE OF THIS DOCUMENT

EMG has prepared this document to inform you about:

-  The proposed project.
-  The current understanding of the baseline environmental and social conditions.
-  Possible environmental impacts and proposed specialist studies
-  How you can have input into the Environmental Authorisation and Processes.

### YOUR ROLE

You have been identified as an Interested and/or Affected Party (I&AP) who may want to be informed about the proposed construction of bulk water supply pipeline development and have input into the processes and environmental reports.

You have an opportunity to review this document and provide your initial comments to us for incorporation in the process.

**Comments will be recorded and included in the reports submitted to the relevant authorities for decision-making.**

### HOW TO RESPOND

If you are interested in receiving further information on the project, please register your details with the person listed below. Responses to this document can be submitted by means of the **attached comments sheet** and/or through communication with the persons listed below.




Dawid Coetsee  
Tel: 051 011 4415  
E-mail: [dawid@envmgrp.com](mailto:dawid@envmgrp.com)

## Environmental Authorisation



Prior to the commencement of the Proposed Bulk Water Scheme: Rural Water Supply Programme for Morokweng, Environmental Authorisation in terms of the National Environmental Management Act (NEMA), (Act No. 107 of 1998), Basic Assessment (BAR) Regulations as amended 7 April 2017 is required from the competent authority, the Department of Economic, Development, Environment, Conservation and Tourism.

According to the National Environmental Management Act (Act No. 107 of 1998) as amended 7 April 2017, Listing Notice 1 and Listing Notice 3 – the following activity(s) are applicable to this proposed project:




### **Listing Notice 1 (GNR. 327, 07 APRIL 2017)**

-  **Activity 9** – The development of (ii) infrastructure exceeding 1 000 metres in length for the bulk transportation of water or stormwater with a peak throughput of 120 litres per second or more.
-  **Activity 12** – The development of (ii) infrastructure or structures with a physical footprint of 100 square metres or more; Where such development occurs (a) within a watercourse, (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse. Excluding (ee) where such development occurs within existing roads, or a road reserves or railway line reserves.
-  **Activity 19** – The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shell grit, pebbles or rock of more than 10 cubic metres from; - (i) a watercourse.

### **Listing Notice 3 (GNR. 324, 07 APRIL 2017)**

-  **Activity 12** - The clearance of an area of 300 square metres or more of indigenous vegetation — (h) North West, (vi) Areas within a watercourse or wetland, or within 100 metres from the edge of a watercourse or wetland.
-  **Activity 14** - The development of – (ii) infrastructure or structures with a physical footprint of 10 square metres or more; where such development occurs, (a) within a watercourse, (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse, (h) North West

### **NWA: Section 21 (ACT NO.34 of 1998), as amended**

-  **Activity 21 (a)** – Taking water from a water resource.
-  **Activity 21 (c)** – Impeding or diverting the flow of water in a watercourse.
-  **Activity 21 (i)** – Altering the bed, banks, courses or characteristics of a watercourse.

In order to ensure that you are identified as an Interested and/or Affected Party (I&AP), individuals are requested to respond by submitting their complete contact details and any comment in writing to the details provided below. **The Background Information Document (BID) will be available on the website provided below. Once registered, a notification will be sent for the availability of the Draft Basic Assessment Report for thirty day (30) commenting period (in terms of NEMA). Sixty Days (60) are given for your comments/concerns on the Water Use License Application (National Water Act, 1998).**

**All information will be available on the website provided below.**

Dawid Coetsee

Tel: 051 011 4415

Email: [dawid@envmgp.com](mailto:dawid@envmgp.com) / [cb@envmgp.com](mailto:cb@envmgp.com)

Website: [www.envmgp.com](http://www.envmgp.com)









### 3. Project Description

The proposed development involves the construction of bulk water supply infrastructure to provide sufficient and sustainable water to the Morokweng Cluster 6 area for a 20-year period. This project includes the development of groundwater sources within Morokweng Cluster 6, supplying nine of the eleven villages with dedicated pump lines to a booster pump station, a command reservoir, and main gravity supply lines to distribution storage tanks for each village.

To address the water needs of the Morokweng Cluster 6 region, ten boreholes have been identified. The gravity distribution system will be designed to deliver bulk water to individual reticulation communal standpipes in each village. The system consists of a main pipeline that will transport water from the bulk reservoir to all connected villages. Villages along this pipeline will receive water through branch link pipelines, with all pipelines designed based on projected future demand. The distribution layout prioritises the use of gravity to convey water wherever possible, minimising the need for pumping.

The village distribution network (reticulation) will be implemented in future projects; however, the current design ensures that water will be supplied at a minimum rate of 10 litres per minute to a standpipe located within a 200-meter radius of each household (with a maximum spacing of 350 meters between standpipes). As no existing water infrastructure is available for this project, all elements outlined in the project scope will involve the construction of new infrastructure.

The required new infrastructure includes:

-  Equipping 10 boreholes capable of delivering a total of 75 litres per second on a 12-hour cycle over a 20-year period for 9 of the 11 villages, complete with electricity and a backup generator or diesel engine.
-  Electrification of all boreholes with new Eskom supply points.
-  Construction of a new 90mm-400mm diameter uPVC pumping main pipeline from various borehole locations, covering a total distance of approximately 34.5km.
-  Construction of a new 63mm to 500mm diameter uPVC gravity main pipeline from the bulk command reservoir to 9 distribution tanks, spanning a total distance of approximately 47km.
-  Construction of a new chlorination system, including pumps and pipework.
-  Construction of new storage facilities for bypassing villages, featuring elevated steel tanks ranging from 30KL to 40KL.
-  Construction of a new booster pump station to convey water from the boreholes to the new bulk command reservoir, including a backup generator.
-  Construction of a new 6-megalitre concrete storage reservoir to maintain a 48-hour reserve.

#### PARTIES INVOLVED IN THE APPLICATION PROCESSES IAPs

- ♣ Surrounding landowners, land users and communities
- ♣ Parastatals




#### KEY STAKEHOLDERS

- ♣ Department of Economic, Development, Environment, Conservation and Tourism
- ♣ Department of Water and Sanitation (DWS)
- ♣ North West Province Department of Roads and Public Works
- ♣ Department of Heritage (SAHRA)

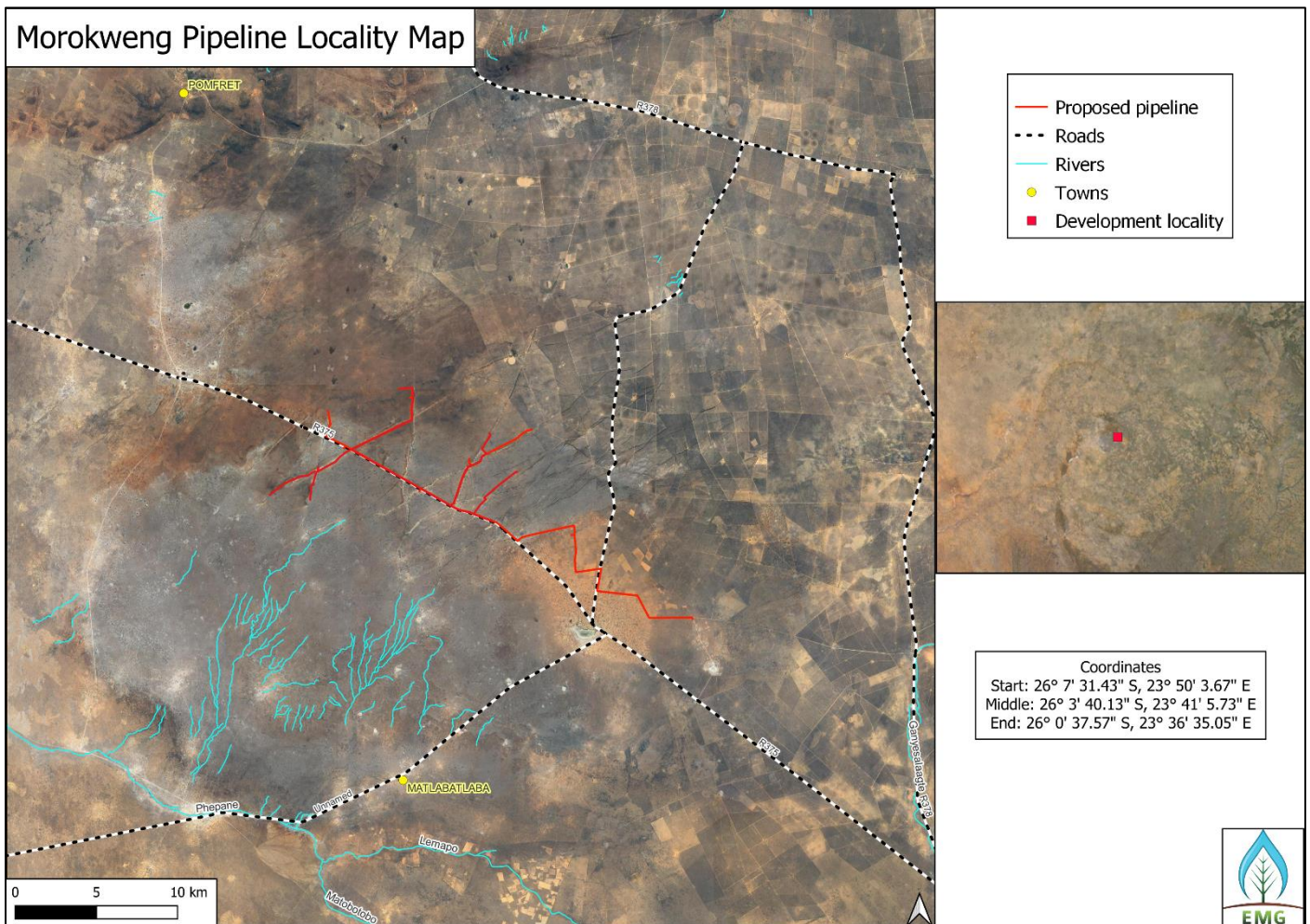
#### LOCAL AUTHORITIES

- ♣ Kagisano Molopo Local Municipality - Municipal Manager
- ♣ Kagisano Molopo Local Municipality - Executive Mayor
- ♣ Dr Ruth S Mompoti District Municipality – Municipal Manager
- ♣ Dr Ruth S Mompoti District Municipality - Executive Mayor

**Please let us know if there are any additional parties that should be involved.**

-  Construction of new 4ML ground reservoirs at Morokweng/Morokwaneng and Garapipa, including a 1.5ML elevated tower.
-  Construction of a new booster pump station to pump water into the elevated tower.
-  Complete installation of a SCADA monitoring system at all boreholes, booster pump stations, and reservoirs.








This development is designed to provide most of the villages with bulk water supply from a single command reservoir, ensuring a reliable and sustainable water supply to all distribution reservoirs. The project is regarded as a high-priority initiative to be implemented through the Regional Bulk Infrastructure Grant (RBIG) program of the Department of Water and Sanitation.



**Figure 1:** Locality map for the proposed upgrading of bulk water infrastructure in Morokweng, North West Province.

## 4. Public participation




The Public Participation Process (PPP) forms a fundamental part of the application for Environmental Authorisation process. It aims to provide an opportunity for Interested and Affected Parties (I&AP's) to obtain clear, accurate and comprehensive information about the Basic Assessment Report application for the proposed Bulk Water Scheme: Rural Water Supply Programme for Morokweng, North West Province. In addition, inputs from the public, interested and affected groups are considered in the planned project development. As a result, a clear recording of issues raised, and comments made is maintained in a register of comments and responses. This register is updated as and when new comments and concerns are raised.

-  Public meeting with I&APs and regulatory authorities (if required).
-  Submit application to the Department of Economic Development, Environment, Conservation and Tourism (DEDECT) (14 days).
-  Submit draft BAR to the DEDECT.
-  Public & authority review of draft BAR (30 calendar days) Update the draft BAR with comments received during the review period.
-  Submit updated Final BAR to the DEDECT.
-  Review of the Final BAR by the DEDECT (107 calendar days).
-  Circulate decision to I&APs on the project database.

PROCESS STEPS (in accordance with GN326)	RESPONSIBLE PARTY	TIMEFRAME
1. Initial communication to clarify the application with the Authorising Department.	EAP	1 day
2. EAP to conduct a site investigation	EAP	1 day
3. EAP to submit Application for Environmental Authorisation to the competent authority.		1 day
4. Competent authority Accepts Application.	Competent authority	14 days
5. EAP to compile a Basic Assessment Report subjected to 30 days Public Participation Process.	EAP	90 days
6. EAP to submit Final Basic Assessment Report inclusive of comments to competent authority.	EAP	1 day
7. Competent authority to grant or decline Approval for Environmental Authorisation.	Competent authority	107 days
8. Environmental Authorisation subject to 20-day appeal process.	EAP	20 days
9. Final Approval of Environmental Authorisation.	Competent authority	1 day

## Potential Environmental impacts

Below is a preliminary list of potential impacts identified at this process stage and will be investigated as part of the environmental assessment process. The list will be refined during the Basic Assessment Process.

-  Phase One Heritage Impact Assessment
-  Aquatic Ecological Assessment
-  Terrestrial Ecological Assessment



<b>APPLICATION FOR THE PROPOSED BULK WATER SCHEME: RURAL WATER SUPPLY, MOROKWENG, NORTH WEST PROVINCE REGISTRATION AND RESPONSE FORM FOR INTERESTED AND AFFECTED PARTIES (I&amp;AP)</b>	
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Date	
Particulars of the I&AP	
Name	
Postal Address & Code	

Street Address & Code	

Telephone number		Cell Phone Number	
Fax Number		E-Mail Address	

Please Identify your Interest in the Proposed Project:


Please write your comments and questions here:


Please return completed form prior to 30 days lapsing: Dawid Coetsee Tel: 051 011 4415 Email: <a href="mailto:dawid@envmgp.com">dawid@envmgp.com</a> Website: <a href="http://www.envmgp.com">www.envmgp.com</a>
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