

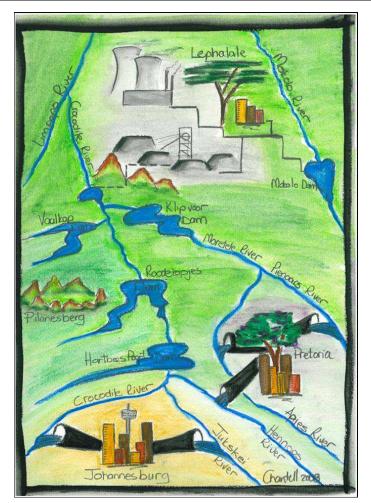
MOKOLO AND CROCODILE RIVER (WEST) WATER AUGMENTATION PROJECT (MCWAP)

Phase 2: Transfer Scheme from the Crocodile River (West) to the Lephalale Area

DEAT Registration Number: 12/12/20/1466

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT

BACKGROUND INFORMATION DOCUMENT – SCOPING PHASE





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1. PURPOSE OF BACKGROUND INFORMATION DOCUMENT AND ENVIRONMENTAL IMPACT **ASSESSMENT (EIA)**

The purpose of this document is as follows:

- Serves as an introduction and description of the proposed construction of a pipeline to transfer water from the Crocodile River (West) to the Steenbokpan area;
- Provides an overview of the Environmental Impact Assessment (EIA) process;
- Provides notice to potential stakeholders to register as Interested and Affected Parties (I&APs) regarding the Mokolo Crocodile (West) Water Augmentation Project (MCWAP) Phase 2;
- To obtain the initial comments and contributions by I&APs.

According to Government Notice GN No. R. 385 (2006), "interested and affected party" means an interested and affected party contemplated in section 24(4)(d) of the National Environmental Management Act (No. 107 of 1998), and which in terms of that section includes (a) any person, group of persons or organisation interested in or

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any organ of state that may have jurisdiction over any aspect of (b) the activity.

affected by an activity; and

The purpose of the EIA is to identify and evaluate $\ddot{\mathbf{L}}$ potential impacts, to recommend measures to avoid or reduce negative impacts and to enhance positive impacts.

2. **BACKGROUND & INTRODUCTION**

The current shortage in the supply of electricity in the country necessitates ESKOM to fast track the building of further power stations. As a result, ESKOM started construction of the new Medupi Power Station during 2007, in the Lephalale area, which lies in the Mokolo catchment. This development will require the expansion of the coal mining activities as well as other consequential secondary and tertiary developments. There is also a strong likelihood of further power stations in the area as well as petro-chemical industries. These developments are driven by the presence of extensive coal reserves in this area and are expected to result in a sharp increase in water requirements. Unfortunately, the availability of water in this area is limited. Therefore, the Department of Water Affairs and Forestry (DWAF) commissioned the Mokolo Crocodile (West) Water Augmentation Project (MCWAP) to establish how these demands can be met within the very challenging timeframes.

DWAF separated the scope of the MCWAP Feasibility Study into five key modules. These modules and the Professional Service Providers that were appointed to undertake the work are as follows:

The Project Coordination and Management • Module - Ninham Shand Consulting Service in

association with PD Naidoo and Associates (PDNA) Ltd and Urban-Econ Developmental Economists.

- The Technical Study Module including water resources evaluation, engineering assessment of infrastructure options and environmental screening - Africon (Pty) Ltd in association with Kwezi V3, Vela VKE and specialists.
- The Environmental Management Module -Nemai Consulting.
- The Regional Economics Module no Professional Service Provider has been appointed to date.
- The Institutional and Financial Module will be undertaken by Trans Caledon Tunnel Authority (TCTA).

The infrastructure options considered to augment water supply to the Lephalale area include the following:

- 1. De-bottlenecking of an existing pipeline, owned by Exxaro:
- 2. Phase 1: Augment the supply from Mokolo Dam; and
- Phase 2: Transfer scheme from the Crocodile 3. River (West) to the Lephalale area.

Even though it is regarded as one single project, in terms of the Environmental Management Module, separate environmental assessments are to be conducted for the three abovementioned project components (as discussed in Section 4).

3. DESCRIPTION – PHASE 2

Phase 2 entails a transfer scheme from the Crocodile River (West) at Vlieëpoort near Thabazimbi to the Lephalale area via a system consisting of:

A weir and abstraction infrastructure, including a high lift pumpstation at Vlieëpoort (near Thabazimbi);

Transfer system (approximately consisting of three potential pipeline routes for the rising pipeline, with the preferred route primarily running parallel to the railway line;



100

km):

- A Break Pressure Reservoir (BPR);
- An Operational Reservoir; and a
- Delivery system, consisting of a gravity pipeline (approximately 30km) running from the Operational Reservoir to the Steenbokpan area.

Phase 2 will be implemented over 5 calendar years, starting 2010, to achieve ultimate required net transfer capacity of 220 million m^3/a .





Refer to the Locality Map – MCWAP Phase 2 on page 5 for an illustration of the proposed route (preferred alignment shown in green and the alternative route in purple).

4. ENVIRONMENTAL ASSESSMENT

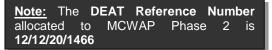
4.1 Process

MCWAP requires authorisation in terms of the National Environmental Management Act (No. 107 of 1998), which will be undertaken in accordance with the Environmental Impact Assessment (EIA) Regulations (Government Notice No. R385, R386 and R387). Nemai Consulting was appointed by DWAF independent Environmental as the Assessment Practitioner to undertake the environmental assessment for MCWAP.

The EIA decision-making authority is the National Department of Environmental Affairs and Tourism (DEAT). The Limpopo Department of Economic Development, Environment and Tourism (LEDET) is also an important participatory authority in this process. Following pre-consultation with DEAT it was decided to submit a Class Application for the following three separate environmental assessments:

- De-bottlenecking Basic Assessment;
- Phase 1 Scoping and EIA; and
- Phase 2 Scoping and EIA.

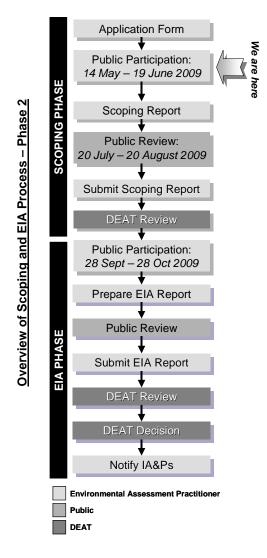
The separation of MCWAP into three environmental assessments is to prioritise the associated components of the project.



As mentioned, this BID is only for the Scoping and EIA for MCWAP Phase 2. Separate environmental assessments will be conducted for the debottlenecking and Phase 1 (as discussed above).

Authorisation will also be required from the Department of Minerals and Energy (DME) for establishing borrow pits for the sourcing of construction material, in terms of the Mineral and Petroleum Resources Development Act (No. 28 of 2002). This process will run in parallel with the EIA.

Refer to the diagram below for an overview of the Scoping and EIA process for MCWAP Phase 2. It is anticipated that the process will be concluded in May 2010. *Note that the dates below may change.*



4.2 Specialist Studies

At this stage the following specialist studies have been identified for MCWAP Phase 2:

- Ecological (terrestrial and aquatic) Study;
- Heritage Impact Assessment;
- Socio-economic Study, and
- Visual Impact Assessment.

Additional studies may be identified as the EIA process unfolds.

4.3 Public Participation

The public participation process that is currently underway for MCWAP Phase 2 entails the following:

 Developing a database of I&APs, including landowners within a 200m corridor (i.e. 100m on either side of the pipeline route), water endusers, stakeholders, authorities and the general public;





- Notifying I&APs through the placement of notice boards and newspaper advertisements (local and regional newspapers), and also distributing the Background Information Document (BID);
- 3. Convening Open Days to allow for project-related discussions;
- 4. Granting I&APs the opportunity to review the Scoping as well as the Environmental Impact Assessment Reports (to be completed later on in process); and
- 5. Advertising the DEAT environmental decision in the local newspaper and notifying all registered I&APs of the decision.

I&APs are encouraged to participate in the process in order for concerns to be addressed and included in the Scoping and EIA reports.

The following **Open Days** (in chronological order) will be held during the Scoping phase as part of the wider MCWAP consultation process. Note that I&APs are welcome to attend Open Days that are not specific to Phase 2.

| Focus of BID | Phase 2 | | | | |
|--------------|-------------|-----------------------|--|--|--|
| | 27 May 2009 | | | | |
| | Area: | Thabazimbi | | | |
| | Venue: | Kumba Bioscope Hall | | | |
| | Time: | 08h00 – 13h00 | | | |
| | | | | | |
| | 27 May 2009 | | | | |
| | Area: | Lephalale | | | |
| | Venue: | Mogol Conference Room | | | |
| | Time: | 15h30 – 19h30 | | | |
| | | | | | |

| Phase 1 | | | | | |
|-------------|-----------------------|--|--|--|--|
| 28 May 2009 | | | | | |
| Area: | Lephalale | | | | |
| Venue: | Mogol Conference Room | | | | |
| Time: | 08h00 – 13h00 | | | | |

| De-bottlenecking | | | | |
|------------------|--------------------------|--|--|--|
| 28 May 2009 | | | | |
| Area: | Mokolo Dam Area | | | |
| Venue: | Ashante Conference Venue | | | |
| Time: | 15h30 – 19h30 | | | |
| | | | | |

Thereafter, a public meeting will be held to present the findings of the Scoping Report. The details of this meeting will be confirmed.

During the EIA phase a public meeting will be convened to present *inter* alia the findings of the specialist studies and the progress of the environmental assessment. The details of the second public meetings will be communicated later on in the process.

4.4 Registration as I&AP and for attendance of Public Open Days

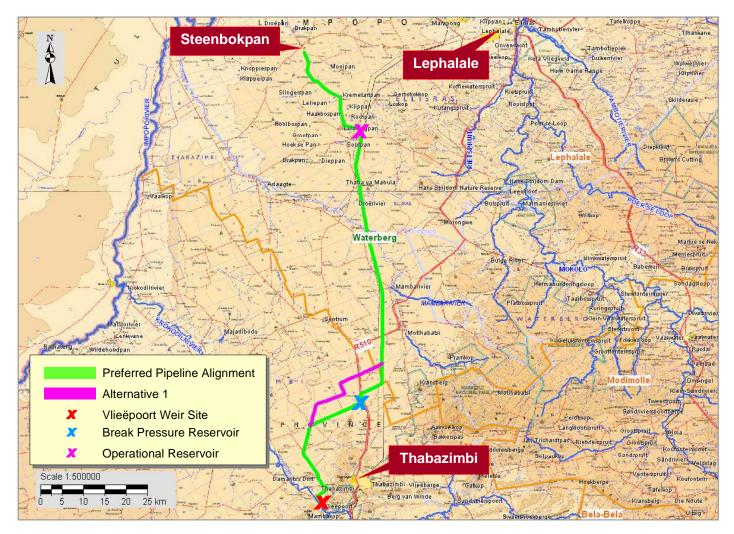
In order to ensure that you are registered as an I&AP, please submit your name, contact information and

interest in the project by completing the attached Reply Form. It is important that you use the space provided on the Form to register for the public open days in advance. You can also provide your comments on the Reply Form. The time period for returning the Reply Form to Nemai Consulting and registering as an I&AP is from:

<u>14 May 2009 – 19 June 2009</u>







Locality Map – MCWAP Phase 2

5. CONTACT DETAILS

For any queries pertaining to the project, please contact the Environmental Assessment Practitioner below:



Contact:Salomon Pienaar
(Public Participation Coordinator)Tel:(011) 781 1730Fax:(011) 781 1731Email:salomonp@nemai.co.za

DWAF Project Web Page: http://www.dwaf.gov.za/projects.asp

Thank you for your participation







ENVIRONMENTAL & SOCIAL CONSULTANTS

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Reply Form

Registration as an Interested and Affected Party

(Complete and return by 19 June 2009 to Salomon Pienaar)

| Date: | | Official use | | | |
|---|-----------------------------------|----------------|----------------------|-----------------------|----------------|
| Name of org | | | | | Date received: |
| Name & Su | name: | | | | Our reference: |
| Address | Postal: | Physical: | | | Status |
| | | | | | |
| | | | | | |
| Tel No: | | | | | _ |
| Cell No | | | | | _ |
| Fax No: | | | | | - |
| Email: | | | | | |
| Registration as an I&AP: | | V | es | Νο | |
| | | I | 62 | NO | |
| I would like to attend the Public Open Day on 27 May 2009 from 08h00 to 13h00 at the Thabazimbi Bioscope Hall | | Υ | es | Νο | |
| I would like to attend the Public Open Day on 27 May 2009 from 15h30 to 19h30 at the Mogol Conference Hall | | Y | es | Νο | |
| (Lephalale) | _ | | | | |
| Please inclu | ide the contact details of any po | ossible other | <u>I&APs you</u> | might be aware of: | |
| Comments: | (note - additional pages may be i | ncluded if the | space prov | ided is insufficient) | |