





Minutes

Sibanye Stillwater	
7 February 2023	

Sibanye Stillwater Marikana Mine: Eastern Platinum Limited (EPL) Remining of TD1 and TD2.	
7 February 2023	14:00 Teams meeting
Meeting called by:	Alta van Dyk Environmental Consultants (AVDE)
Type of meeting:	Pre-Application Meeting with the Department of Mineral Resources and Energy
Facilitator:	Suzanne van Rooy
Note taker:	Lenaldi Görgens
Attendees:	Desmond Makamu (DM) - Department of Mineral Resources and Energy Yolandé Janse van Rensburg (YvR) - Sibanye Stillwater (SS) Suzanne van Rooy (SvR) - Alta van Dyk Environmental Consultants cc (AVDE) Lenaldi Görgens (LG) - AVDE
Apologies:	
Presentation – Suzanne van Rooy	
<u>Introduction and Welcome</u>	
<ul style="list-style-type: none"> SvR welcomed the attendees, everyone introduced themselves. SvR explained that it was a pre-application meeting for Sibanye-Stillwater’s Eastern Platinum Limited (EPL) proposed remining of EPL TD2 and re-deposition on EPL TD1 project. 	
<u>Background to Eastern Platinum Mine</u>	
<ul style="list-style-type: none"> Sibanye-Stillwater’s Marikana Operations comprise of Western Platinum and Eastern Platinum Western Platinum and Eastern Platinum has separate authorised Environmental Management Programmes Eastern Platinum submitted a consolidated EMPr in 2012 (that was approved in January 2017) EPL Tailings Dam Complex included in 2012 EMPr 	
<u>Background to EPL Complex</u>	
<ul style="list-style-type: none"> Located on farm Turffontein 462 JQ in district of Marikana in North West Province EPL Tailings Dam Complex comprises two tailings dams, TD1 and TD2 TD1 decommissioned since October 2004, re-mining commenced in February 2018 TD2 operational since 2003, tailings material deposited from the EPL and EPC plants 	
<u>Current Authorisation</u>	
<ul style="list-style-type: none"> The following is currently authorised: <ul style="list-style-type: none"> TD1: Decommissioned TSF <ul style="list-style-type: none"> Footprint area: 75 ha Commissioned: 1989 Date of decommission: October 2004 Gross storage capacity: 14 600 000m³ TD1 currently authorised for re-mining <ul style="list-style-type: none"> Re-mined at 450 000 tons per month Material processed at WPL UG2 concentrator Chromite removed Re-processed material deposited on WPL Central TD5 and Central TD6 TD2: Active TSF <ul style="list-style-type: none"> Footprint area: 129 ha Commissioned: 2003 Date of decommission: 2024 Gross storage capacity: 44 000 000m³ 	
<u>Proposed Project</u>	
<ul style="list-style-type: none"> Commence re-mining of TD2 <ul style="list-style-type: none"> Re-mining at 320 000 tons/month Re-mine lifetime ~ 15 years 	

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- No additional infrastructure will be required – existing plant and associated infrastructure (pipelines) to be utilised
- Re-commissioning of TD1 once re-mining of TD1 is complete
- Re-mine TSF up to 0,5m from current barrier
- Design and deposition strategy to remain

Environmental authorisation requirements.



- Re-mining of TD2
 - Category A Activity 13 of NEM:WA
 - The expansion of a waste management activity listed in Category A or B of this Schedule which does not trigger an additional waste management activity in terms of this Schedule
 - Re-mining of TD1 was authorized in the 2012 EPL EMPr. Re-mining of TD2 is considered an expansion of re-mining of TD1, i.e. an expansion of Category B Activity 11 (reclamation of a residue deposit)
 - Basic Assessment environmental authorisation process in terms of NEMA
- Re-commissioning of TD1 once re-mined
 - Will it trigger a NEM:WA Category B Activity 11 of NEM:WA?
 - Or will it trigger a NEMA Section 31 Amendment?

The presentation is attached at the end of this minutes of meeting (MoM) (Appendix A).

Discussion

- SvR explained that the re-mining of TD2 is seen as an expansion activity of the authorised re-mining of TD1 and therefore triggers a basic assessment process under NEMA. SvR asked if DM is in agreement with the NEMA process triggered.
- DM Agreed that for the re-mining of TD2 a basic assessment is triggered.
- SvR stated that AVDE undertook screening for the re-depositing but needs the department's guidance on the environmental authorisation process that needs to be followed.
- SvR asked a Regulation 31 amendment could be undertaken or will the department view the redeposition of tailings material on TD1 as a new facility. She confirmed that TD1 is authorised under MPRDA and the current EMPr authorises the remaining thereof, but SS would like to recommission the tailings dam to place material on the tailings dam up to its original capacity, once remaining is completed.
- DM asked if the footprint has been reduced as part of the remaining of the TSF (TD1).
 - SvR stated TD1 was authorised under the MPRDA, in the 2012 EMPr which was a consolidated EMPr. In the EMPr it states that TD1 is a dormant facility, the dimensions are available, and remaining thereof is authorised. The intention is not to minimise the footprint, but to re-deposit tailings material on the original footprint of TD1. There will be no increase in the footprint, no new infrastructure is required since SS will use the current authorised infrastructure.
- DM asked if SS is currently re-mining.
- SvR confirmed that SS is re-mining TD1. A layer of 0,5 m of tailings material will be left on the existing barrier, before planned redeposition of tailings material will take place.
- DM asked if the current footprint of TD1 is flat currently.
- YvR confirmed that the area is not yet flat. Approximately a year to a year and three months of remaining is left if remaining of the TD1 up to the ground level would take place. YvR stated that should authorisation be obtained for the redepositing onto TD1, a layer of approximately 0,5 1m of tailings material would remain on.
- DM stated that it was his understanding that the redepositing needs environmental authorisation.
- SvR asked DM to confirm of the environmental authorisation required. Will a NEM:WA authorisation be required, or a Regulation 31 Amendment in terms of NEMA be applicable.
- DM asked if authorisation in terms of the National Water Act will be required, as this will be taken into consideration when determining the environmental authorisations required.
- SvR confirmed that TD1 and TD2 is authorised under the NWA as Section 21(g) water uses as tailings facilities. SvR said that it will be confirmed with the Department of Water and Sanitation.

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- DM wanted to know if the same designs will be utilised when tailings material is deposited onto TD1.
- SvR confirmed that the same designs, deposition rates and volume capacities will be utilised at TD1.
- DM stated that financial provisioning will need to be considered.
- DM asked if authorisation for the project is only needed from the DMRE?
- SvR confirmed that currently the only authorisation required identified is from the DMRE.
- DM asked the presentation and motivation in order to advise regarding the required environmental authorisations for the proposed projects.

SvR thanked all for attending the meeting.

The meeting was adjourned at approximately 14:20.

Action items	Person	Deadline
Compile and distribute minutes of meeting	LG	ASAP
Send the letter and Presentation do DM	SvR	ASAP

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Sibanye Stillwater	 Sibanye Stillwater
7 February 2023	 Alta van Dyk Environmental

Appendix A: Presentation

Sibanye we are one
Stillwater

**Eastern Platinum
(Pty) Ltd
Proposed remining
of EPL TD2 and re-
deposition on EPL
TD1**


**Alta van Dyk
Environmental**

**DMRE Pre-application meeting
7 February 2023, 14:00**

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Purpose of the Meeting

- 🌀 Introduce and present project
- 🌀 Confirm environmental authorisation process




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Background to Eastern Platinum Mine

- Sibanye-Stillwater's Marikana Operations comprise of Western Platinum and Eastern Platinum
 - Western Platinum and Eastern Platinum has separate authorised Environmental Management Programmes
 - Eastern Platinum submitted a consolidated EMPr in 2012 (approved in January 2017)
 - EPL Tailings Dam Complex included in 2012 EMPr
-
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Background to EPL Tailings Dam Complex

- Located on farm Turffontein 462 JQ in district of Marikana in North West Province
 - EPL Tailings Dam Complex comprises two tailings dams, TD1 and TD2
 - TD1 decommissioned since October 2004, re-mining commenced in February 2018
 - TD2 operational since 2003, tailings material deposited from the EPL and EPC plants
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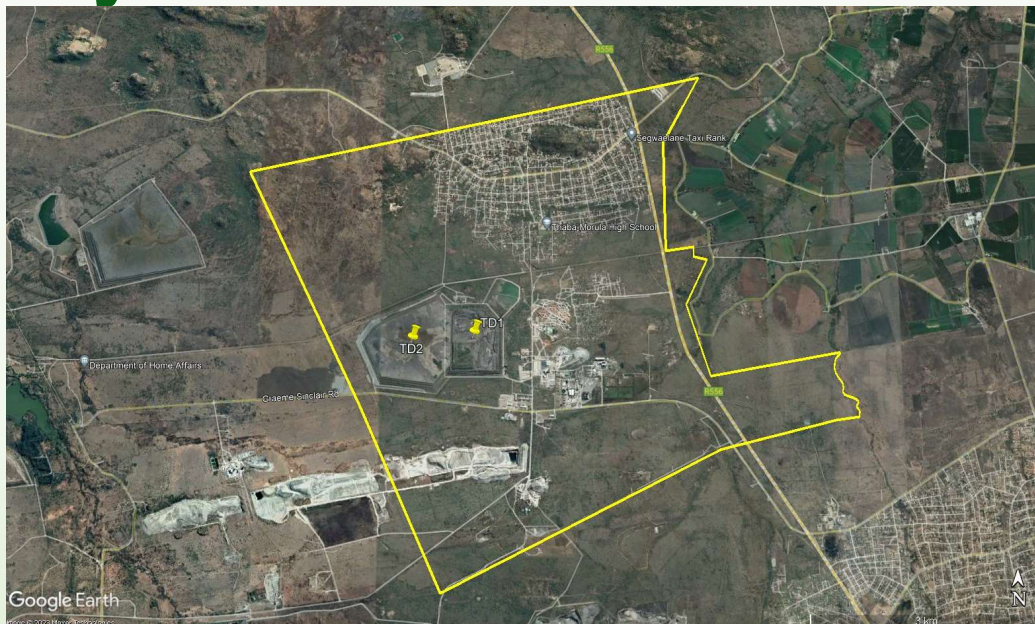
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Locality map



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Layout



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Layout



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Current authorisation

The following is currently authorised:

✿ TD1: Decommissioned TSF


- ✿ Footprint area: 75 ha
- ✿ Commissioned: 1989
- ✿ Date of decommission: October 2004
- ✿ Gross storage capacity: 14 600 000m³


✿ TD1 currently authorised for re-mining

- ✿ Re-mined at 450 000 tons per month
- ✿ Material processed at WPL UG2 concentrator
- ✿ Chromite removed
- ✿ Re-processed material deposited on WPL Central TD5 and Central TD6

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Current authorisation

 The following is currently authorised:


 TD2: Active TSF




-  Footprint area: 129 ha
-  Commissioned: 2003
-  Date of decommission: 2024
-  Gross storage capacity: 44 000 000m³






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Proposed project

 Commence re-mining of TD2

-  Re-mining at 320 000 tons/month
-  Re-mine lifetime ~15 years
-  No additional infrastructure will be required – existing plant and associated infrastructure (pipelines) to be utilised

 Re-commissioning of TD1 once re-mining of TD1 is complete

-  Re-mine TSF up to 0,5m from current barrier
-  Design and deposition strategy to remain



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Environmental authorisation requirements

Re-mining of TD2

Category A Activity 13 of NEM:WA

- ✦ *The expansion of a waste management activity listed in Category A or B of this Schedule which does not trigger an additional waste management activity in terms of this Schedule*
- ✦ Re-mining of TD1 was authorized in the 2012 EPL EMPr. Re-mining of TD2 is considered an expansion of re-mining of TD1, i.e. an expansion of Category B Activity 11 (reclamation of a residue deposit)
- ✦ Basic Assessment environmental authorisation process in terms of NEMA

Re-commissioning of TD1 once re-mined

- ✦ NEM:WA Category B Activity 11 of NEM:WA?
- ✦ NEMA Section 31 Amendment?



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Way forward





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Contact details

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suzanne@avde.co.za





Minutes

Sibanye-Stillwater	
Date: 30 August 2023	

Meeting Details: Sibanye-Stillwater Eastern Platinum (Pty) Ltd: Re-mining of Tailings Dam 2	
Date: 30 August 2023	Time: 10:00
Place: Zoom	
Meeting called by	Alta van Dyk Environmental Consultants (AVDE)
Type of meeting	Pre-application meeting
Facilitator	Suzanne van Rooy
Note taker	Suzanne van Rooy
Attendees	Cllr Mphahlele (BM) – Ward Councillor for Ward 40, Madibeng Local Municipality Yolandé Janse van Rensburg (YJvR) – Sibanye-Stillwater Suzanne van Rooy (SvR) - AVDE
Apologies	N/A
Presentation	
<p>A presentation was given by SvR. Refer to Appendix A for a copy of the presentation.</p> <p>Purpose of the meeting:</p> <ul style="list-style-type: none"> • Introduce and present project to stakeholders • Provide information about the proposed re-mining of Tailings Dam 2 • Explain the environmental authorisation process • Explain how stakeholders can be involved in the process • Obtain comments from stakeholders <p>Background to Eastern Platinum Mine</p> <ul style="list-style-type: none"> • Sibanye-Stillwater’s Marikana Operations comprise of Western Platinum and Eastern Platinum • Western Platinum and Eastern Platinum has separate authorised Environmental Management Programmes • Eastern Platinum submitted a consolidated EMPr in 2012 (approved in January 2017) • EPL Tailings Dam Complex included in 2012 EMPr <p>Background to EPL Tailings Dam Complex</p> <ul style="list-style-type: none"> • Located on farm Turffontein 462 JQ in district of Marikana in North West Province • EPL Tailings Dam Complex comprises two tailings dams, TD1 and TD2 • TD1 decommissioned since October 2004, re-mining commenced in February 2018 • TD2 operational since 2003, tailings material deposited from the EPL and EPC plants <p>Project Description: Re-mining of TD2</p> <ul style="list-style-type: none"> • TD2 footprint area is 129 ha, height of 37m • Estimated tonnes deposited onto dam is 37 million tonnes Re-mining will be 320 000 tonnes per month (3,8 million tonnes/annum) • Estimated life of mine: 15 years • Tailings to be re-treated at Eastern Bulk Tailings Treatment • Re-treated tailings material deposited on TD6 • Hydraulic re-mining with high pressure water guns • Once dam is dry enough, mechanical re-mining will be used • No additional infrastructure will be required – existing plant and associated infrastructure (pipelines) to be utilised 	

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Sibanye-Stillwater	
Date: 30 August 2023	

Legislative requirements

- Environmental Authorisation
 - Basic Assessment Process in terms of the National Environmental Management Act (NEMA)
 - Competent authority is the North West Department of Mineral Resources and Energy
- General Authorisation
 - General Authorisation in terms of the National Water Act (NWA)
 - Competent authority is the Department of Water and Sanitation

Specialist Studies

- Terrestrial Biodiversity – The Biodiversity Company
- Agricultural Potential – The Biodiversity Company
- Wetland – WCS Scientific
- Groundwater – Geostratum
- Air Quality – uMoya-Nilu
- Noise – dBAcoustics
- Heritage – Beyond Heritage

Way forward

- Pre-application engagement
 - Distribution of Background Information Letter
 - Placement of site notices
 - Pre-application meetings
- Basic Assessment Phase
 - Notification letters/sms notification
 - Advertisement in Brits Pos
 - Draft Basic Assessment Report available for public comment for 30 days

Discussion

BM wanted to know if chrome is also extracted as part of the tailings re-treatment.

YJvR confirmed that only Platinum Group Metals are extracted during tailings re-treatment.

BM wanted to know how the project will affected Air Quality, as there is a community to the north east of the TD2.



SvR confirmed that an Air Quality Study was undertaken, and that the predicted dust deposition is low and well below the limit value for acceptable dust fallout in residential areas. The predicted PM₁₀ and PM_{2.5} concentrations are low and well below the respective NAAAQS through the surrounding environmental and nearby residential areas.

SvR confirmed that the results of the Air Quality study will be included in the Draft Basic Assessment Report to be distributed for public comment, as well as the actual Air Quality Impact Report.

BM wanted to know what business opportunities will be created as part of the re-mining of TD2, and what the procurement procedures of Sibanye-Stillwater is.

Sibanye-Stillwater confirmed that the proposed re-mining of EPL TD2 will be an extension of the already operating concentrator. Therefore, businesses that are currently providing a service from the host communities will continue to have business subject to performance and contractual agreements. If the extension to re-mine ETD 2 does not happen, it would mean the BTT/EBTT operations will come to a halt by end of 2024 which would result in 200 job losses (contractors & permanent employees). Supply chain can assist with the procurement procedure. Sibanye-Stillwater's recruitment procedure is aligned



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Sibanye-Stillwater	
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to giving preference to local applicants, as and when there are opportunities, the same procedure will be followed		
BM wanted to know if a site visit to the TD2 could be undertaken.		
SvR confirmed that a site visit to the TD2 will be arranged in the near future.		
Action Items	Person Responsible	Deadline
Compilation of Minutes of Meeting	SvR	04 September 2023
Site visit	SvR/YJvrR	September 2023

The meeting adjourned at approximately 11:00.

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Sibanye-Stillwater	 <small>we are one</small> Sibanye Stillwater
Date: 30 August 2023	 Alta van Dyk Environmental

Appendix A: Presentation

Sibanye we are one
Stillwater

**Eastern Platinum
(Pty) Ltd
Proposed re-mining
of Tailings Dam 2**

**Alta van Dyk
Environmental**

**Pre-application meeting
August 2023**

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Agenda

1. Introduction and welcome
2. Purpose of the meeting
3. Background
4. Project location
5. Project description
6. Legislative requirements
7. Specialist studies
8. Way forward



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Purpose of the Meeting

- 🌐 Introduce and present project to stakeholders
 - 🌐 Provide information about the proposed re-mining of Tailings Dam 2
 - 🌐 Explain the environmental authorisation process
 - 🌐 Explain how stakeholders can be involved in the process
 - 🌐 Obtain comments from stakeholders
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Background to Eastern Platinum Mine

- 🌐 Sibanye-Stillwater's Marikana Operations comprise of Western Platinum and Eastern Platinum
 - 🌐 Western Platinum and Eastern Platinum has separate authorised Environmental Management Programmes
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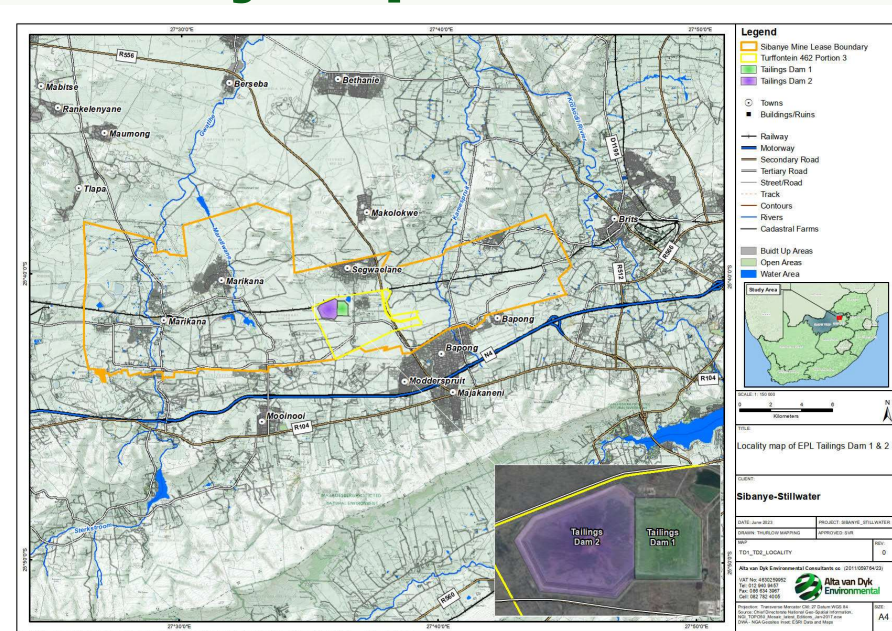
Background to EPL Tailings Dam Complex

- 🌐 Located on farm Turffontein 462 JQ in district of Marikana in North West Province
- 🌐 EPL Tailings Dam Complex comprises two tailings dams, TD1 and TD2
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- 🌐 TD2 operational since 2003, tailings material deposited from the EPL and EPC plants



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Locality map



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Layout



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Project Description: Re-mining of TD2

- 🌐 TD2 footprint area is 129 ha, height of 37m
- 🌐 Estimated tonnes deposited onto dam is 37 million tonnes
- 🌐 Re-mining will be 320 000 tonnes per month (3,8 million tonnes/annum)
- 🌐 Estimated life of mine: 15 years
- 🌐 Tailings to be re-treated at Eastern Bulk Tailings Treatment
- 🌐 Re-treated tailings material deposited on TD6
- 🌐 Hydraulic re-mining with high pressure water guns
- 🌐 Once dam is dry enough, mechanical re-mining will be used
- 🌐 No additional infrastructure will be required – existing plant and associated infrastructure (pipelines) to be utilised

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Project Description: Re-mining of TD2





Hydraulic re-mining





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Legislative Requirements

Environmental Authorisation

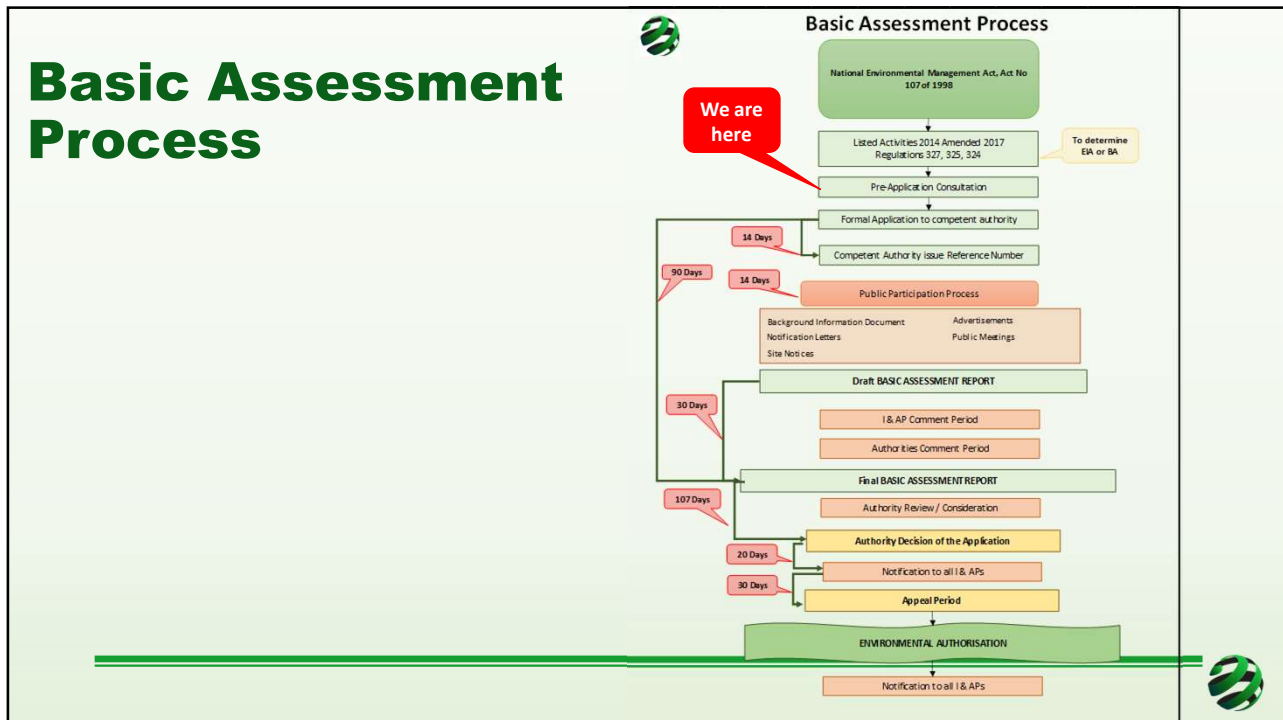
-  Basic Assessment Process in terms of the National Environmental Management Act (NEMA)
-  Competent authority is the North West Department of Mineral Resources and Energy

General Authorisation

-  General Authorisation in terms of the National Water Act (NWA)
-  Competent authority is the Department of Water and Sanitation



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Specialist studies

- 🌿 Terrestrial Biodiversity – The Biodiversity Company
- 🌿 Agricultural Potential – The Biodiversity Company
- 🌿 Wetland – WCS Scientific
- 🌿 Groundwater – Geostratum
- 🌿 Air Quality – uMoya-Nilu
- 🌿 Noise – dBAcoustics
- 🌿 Heritage – Beyond Heritage




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Way forward

Pre-application engagement

-  Distribution of Background Information Letter
-  Placement of site notices
-  Pre-application meetings

Basic Assessment Phase

-  Notification letters/sms notification
-  Advertisement in Brits Pos
-  Draft Basic Assessment Report available for public comment for 30 days



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Contact details

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