

Savannah Environmental (Pty) Ltd | Directors: KM Jodas, J Thomas, M Matsabu Company Reg No.: 2006/000127/07

VAT Reg No.: 4780226736

### **Decommissioning of the Kriel Power Station Asbestos** Landfill Site, Mpumalanga Province

**Notes of Focus Group Meeting** Held on Friday, 02 August 2019 VENUE: 3rd Floor Boardroom, Department of Planning and Development, eMalahleni Local, eMalahleni

> Notes for the Record prepared by: **Nicolene Venter**

Savannah Environmental (Pty) Ltd

**E-mail:** publicprocess@savannahsa.com **Note:** These meeting notes are not verbatim

Please address any comments to Savannah Environmental at the above address

Decommissioning of the Kriel Power Station Asbestos Landfill Site, Mpumalanga Province

**Venue:** 3<sup>rd</sup> Floor Boardroom, Department of Planning and Development, eMalahleni Local

Municipality

**Date:** Friday, 02 August 2019

**Time:** 09h00

#### **MEETING ATTENDEES**

Name	Organisation	Position
Erald Nkabinde		Environmental Manager
Nkululeko Gumede		Town Planner
Mduduzi Mngomezulu	eMalahleni Local Municipality	Assistant Manager: Speaker's
		Office
Lwando Simunca		Environmental Intern
Johanna Phetla		Environmental Compliance Officer
Khuliso Rasimphi	Eskom Holdings SOC Ltd	Senior Environmental Advisor
Reuben Maroga	Savannah Environmental (Pty)	Environmental Scientist
Nicolene Venter	Ltd	Public Participation and Social
	-	Consultant

#### **APOLOGIES**

Stanford Mofere, Nkangala District Municipality

#### WELCOME AND INTRODUCTION

Nicolene Venter welcomed all present at the meeting and the time they made available to attend the meeting. She informed the attendees that the Focus Group Meeting (FGM) was held with the aim to:

- present the need for the project,
- the Basic Assessment and Public Participation Process followed to date;
- present the key environmental findings as documented in the Basic Assessment Report (BAR);
   and
- to obtain any comments or concerns from eMalahleni Local Municipality Officials regarding the proposed project.

NV requested the attendees to introduce themselves and their respective roles.

The Agenda as presented was accepted by the attendees and no objections were tabled for recording of the meeting for minute taking purpose.

It was confirmed by Mr Erald Nkabinde that the hard copy of the BAR was well received at their Offices.

#### **BACKGROUND & TECHNICAL ASPECTS REGARDING THE PROPOSED PROJECT**

Reuben Maroga presented the background to the proposed project and the key environmental findings as documented in the Basic Assessment Report (BAR).

#### **Proposed Decommissioning of the Asbestos Landfill Site**

Reuben Maroga informed the attendees that Eskom SOC Ltd (Eskom) is proposing the decommissioning of the Asbestos Landfill Site at their Kriel Power Station (PS). The landfill site was constructed to enable the Kriel PS to dispose of and bury their asbestos waste in a responsible and environmentally acceptable manner. The landfill site has not been used since 2008, however, Kriel PS continues to be operationally liable in terms of the Permit issued by the then Department of Water and Forestry (permit no B33/2/200/71/P21).

As the landfill site is not being utilised since 2008, a Waste Management Licence (WMLO and a Closure Certificate for decommissioning the Asbestos Landfill Site is required from the Department of Environment, Forestry and Fisheries (DEFF) – previously Department of Environmental Affairs.

#### **Basic Assessment Process**

Reuben informed the attendees that the proposed project requires Environmental Authorisation (EA) in terms of the National Environmental Management Act, 2014 (NEMA), and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended.

The Basic Assessment Report (BAR) has been made available for the required 30-day public review period as from Friday, 19 July 2019 until Monday, 19 August 2019. Following the conclusion of the 30-day review and comment period, the BAR will be updated, where necessary, and submitted to the competent authority, the Department of Environment, Forestry and Fisheries for decision making.

#### Key environmental findings

He stated that the outcome of the environmental studies undertaken by the independent specialists, the outcome of the assessments are as follows:

- no fatal flaws are associated with the proposed project; and
- all impacts associated with the decommissioning of the Asbestos Landfill Site at the Kriel Power Station were found to be environmentally acceptable.

#### Sensitivity analysis

The attendees were informed that no sensitive areas have been identified within footprint of the Ash Dam and the Kriel Power Station.

Copy of the presentation is attached as **Appendix A**.

#### **DISCUSSION SESSION**

#### **Question / Comment**

Johanna Phetla informed the project team that information was presented regarding the impacts on ground and surface water during the decommissioning phase of the project but no information regarding the management and monitoring during the decommissioning phase.

#### Response

Reuben Maroga replied that Kriel Power Station (PS) does comply with the required management and monitoring of its ground and surface water and does conduct detailed monitoring of the quality of the water at the Kriel PS. It is believed that there should not be any additional information or add-ons required to the Closure Plan. However, the monitoring of ground- and surface water for asbestos fibres are included in the Closure Plan and it will be monitored annually for a 10-year period during the decommissioning phase of the landfill site.

Khuliso Rasimphi informed the attendees that there will be no disturbance at the asbestos landfill area. The site was purposefully authorized to be constructed in the wet ashing site and the reason being that with the continuous disposal of the wet ash, the asbestos is being buried deeper and deeper at an approximate depth of 20m to 30m. It was also confirmed that no ash will be reclaimed from the area where the asbestos landfill site is situated to ensure that no asbestos are being exposed. The area will therefore be barricaded to ensure no tampering or unauthorized entry in the area, and it was also confirmed that no activities will take place at the asbestos landfill site. The landfill site was purposefully authorized to form part of the ash facility.

The attendees was informed that Mr Lucas Mahlangu, Official from the Department of Environmental Affairs (DEA), visited the Kriel PS and standing at the site, it was asked where the asbestos landfill site is – because the asbestos landfill site is located within the ash dam, it is well compacted and one cannot see it with the naked eye. Only the ash dam is visible.

Nkululeko Gumede enquired for confirmation purposes that the asbestos is not porous and therefore not airborne.

Khuliso Rasimphi informed the attendees that a study was conducted by SRK on the disposing of asbestos fiber at the Kriel PS and the recommendation was to dispose of the

asbestos in the ash dam as this process will prevent the exposure of asbestos fiber into the air. This correlates with the specialist's study for Komati PS of which the outcome and recommendations was the same as for the Kriel PS. It must also be kept in mind that the ash dam is lined with a double layer of a membrane to prevent leakage. Nkululeko Gumede asked for clarification that Khuliso Rasimphi confirmed that testing is being it can therefore be confirmed that the area done regularly and the results are that no was tested and that there is no possibility that particles are airborne. particles would be airborne and be harmful to humans. Erald Nkabinde requested that Savannah Reuben Maroga responded that the picture Environmental elaborate on the Closure Plan used in the presentation does not indicate the as the picture as included in the presentation exact asbestos landfill site as the landfill site is showed the following which is a concern: located on top of the ash dam. • there are vehicle tracks which one can assume there are activities taking place at The vehicle track on the picture is at the foot of the landfill site which could cause the ash dam and only Kriel PS operation staff disturbance to the landfill site; and have access to the ash facility. • there are patches of white substances on The white substances depicted on the picture the ground at the landfill site and it is not are ash deposits and it needs to be kept in mind clear what these substances are. that wet ash becomes as hard as cement. Erald Nkabinde raised the question whether Khuliso Rasimphi replied that the ash dam the asbestos landfill site was designed and facility was first established and in 1992 the established in 1992 and thereafter the site was asbestos landfill site was established on top of established as an ash dam. the ash dam. The attendees' attention was drawn to the fact that the asbestos landfill site was approved by the then Department of Water and Forestry (DWAF). Khuliso Rasimphi confirmed that Kriel PS has Erald Nkabinde enquired whether the disposing of asbestos on top of the ash dam been issued with a license authorizing the PS to was legally allowed. dispose of asbestos in a responsible manner. The attendees were also informed that the authorization issued for the asbestos landfill site stated that once the license expire or no more asbestos will be required to be disposed that the site can be closed-off. However, the relevant authority notified Kriel PS that the authorized process is not acceptable and that the site

	needs to be officially decommissioned and that
	a detailed Decommissioning Plan needs to be in
	place.
Erald Nkabinde asked what the	Khuliso Rasimphi replied that mitigation
Decommissioning Plan entails i.e. leave it as.	measures will be in place such as rehabilitation
	of the area by capping the site, put layers of soil
Frederick Number of the second state of the se	dressing, seeding, etc.
Erald Nkabinde asked that it be confirmed	Khuliso Rasimphi confirmed that the area will be completely closed off and that monitoring will
that the area will be completely closed off with no access to the site, even for monitoring	be done by walking to the site, no vehicle
purposes.	access.
porposes.	decess.
	The attendees were informed to keep in mind
	that the asbestos is buried deep within the wet
	ash dam approximately 50m deep.
Erald Nkabinde informed the project team	Khuliso Rasimphi confirmed that Kriel PS already
that in terms of the environment, it is always	utilized the dust bucket system for monitoring
best to take the "risk aversion" approach,	purposes. Although the area will be cordoned
thereby ensuring that there would not even be	off, driving on top of or in proximity of the
a slight change of exposure.	asbestos decommissioned landfill site will not
It was also recommended that dust buckets	result in asbestos being exposed.
be used to monitor any possible pollution from	
the asbestos landfill site.	Deule on Mara agreeming of the at it is green review at all the
Erald Nkabinde enquired regarding the quantity of asbestos stored in the landfill site.	Reuben Maroga replied that it is approximately 50m³ per year resulting in 800m³ over a 16-year
quality of aspesios stored in the landillistie.	period (from 1992 – 2008).
Erald Nkabinde requested that the volume be	Khuliso Rasimphi estimated that it could be
provided in Kg.	approximately 80 000kg.
	It was agreed that the information regarding the
	volume be provided in the minutes.
	Post meeting note:
	The amount of waste contained within the
Nkululeko Gumede enquired whether there is	asbestos landfill site is equivalent to 800 tons.  Khuliso Rasimphi replied that burying asbestos
any better alternative for disposing of asbestos	within wet ash dams are the best way to deal
that the current process.	with asbestos and that the same process is
ss conom process.	being followed at Platkop.
	<u> </u>
	Holfontein landfill site makes use of ash from
	Kendal to close their sites.
Erald Nkabinde informed the project team	Khuliso Rasimphi undertook to see the matter
that eMalahleni Local Municipality supports	regarding the re-zoning of Kriel Power Station
the project <b>subject</b> to the finalization of the	through and will be in contact with the
Rezoning of Kriel Power Station.	

eMalahleni Local Municipal Officials regarding
this matter.

The following points were discussed between the eMalahleni Local Municipality Officials and Eskom and not recorded as the discussions fell outside Savannah Environmental's scope of work:

- The ash being disposed of at Kriel PS, is it purely ash generated by Kriel PS or from other surrounding Eskom Power Stations.
- When ash is sold, is it directly from the ash dam or from elsewhere.
- Whether there are other scientific ways of disposing of ash.
- Recommend that Eskom pay for research to be done for better use of ash.
- For what other purposes can ash be used?
- The matter of Rezoning Kriel Power Station property from Agriculture to Industrial / Commercial has been reiterated at the meeting.

#### WAY FORWARD AND CLOSURE

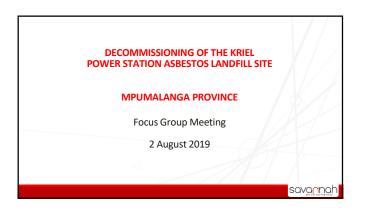
Nicolene Venter thanked everyone for their valuable contribution.

Nicolene closed the meeting at 11h20.

Decommissioning of the Kriel Power Station Asbestos Landfill Site, Mpumalanga Province

### **APPENDIX A**

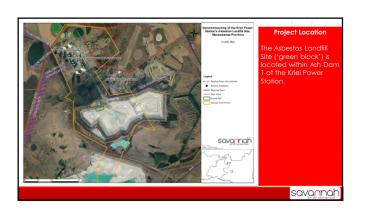
Meeting Presentation











#### **PROJECT OVERVIEW**

- Eskom Holdings SOC Ltd is proposing the decommissioning of an Asbestos Landfill Site at the Kriel Power Station in the Mpumalanga Province.
- The landfill site was constructed to enable the station to dispose of and bury asbestos waste.
- The landfill site has not been used since 2008, however, the station continues to be operationally liable in terms of the permit (B33/2/200/71/P21) issued by the then Department of Water and Forestry (DWAF).

savannah

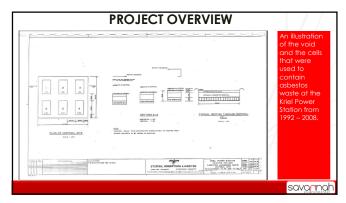
#### **PROJECT OVERVIEW**

- It is for this reason that a Waste Management Licence (WML) and a Closure Certificate for decommissioning the Asbestos Landfill Site is required from the Department of Environmental Affairs (DEA).
- Please note that the decommissioning of the Asbestos Landfill Site will not be associated with any constructionrelated activities: the site is completely encapsulated within Ash Dam 1 and it is covered by a thick pavement or succession of ash.

savannah





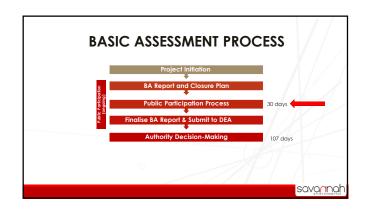


## BASIC ASSESSMENT PROCESS

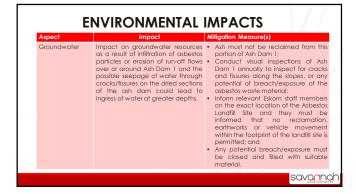
#### **BASIC ASSESSMENT PROCESS**

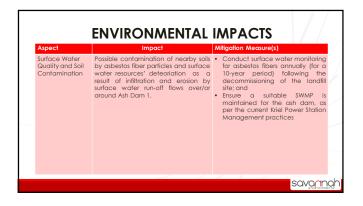
- » The proposed decommissioning of the Asbestos Landfill Site at the Kriel Power Station requires:
  - \* A Waste Management Licence (WML) in terms of NEMA (Act No 107 of 1998) of 1998, NEMWA (Act No. 59 of 2008) of 2008, Government Notice Regulation 921 of November 2013 and the EIA Regulations (2014), as amended, specifically for the decommissioning of the asbestos landfill activity.
- A BA Report has been prepared & is available for a 30-day public review:
   Friday, 19 July Monday, 19 August 2019
- » Following the conclusion of the 30-day public review period a Final BA Report will be prepared & submitted to Department of Environmental Affairs (DEA).

savannah

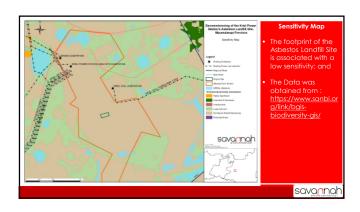


# OUTCOMES OF THE BA PROCESS »A number of impacts from a biophysical perspective. »No fatal flaws are associated with this project; and »All impacts associated with the decommissioning of the Asbestos Landfill Site are environmentally acceptable.





# SENSITIVITY ANALYSIS » No sensitive areas have been identified within the footprint of the Ash Dam and the Kriel Power Station. » An Environmental Sensitivity Map is included.









			ATTENDANCE REGISTER	E REGISTER	
Project	Decommissioning of the Kriel Power Landfill Site, Mpumalanga Province	ver Static	on Asbestos	ver Station Asbestos Meeting Fo	Focus Group Meeting: eMalahleni Local Municipality
Date	Friday, 02 August 2019	Time	10400	Venue	3rd Floor, Dept of Development & Planning, eMalathleni

Organization	Name & Postal Address	Contact Details	Signature
Et DOS spaiple Holding	Mr Khuliso Ramaphi	Tel: 0/7 6/5 2634	
		Fax: 086 & 77 624	
Designation	2	cell: 076 250 2002	The state of the s
Served Advisof			Called
Organization	Name & Postal Address	Contact Details	Signature
eMalahleni Local	Erald Nkabinde	Tel: 013 690 6350	
Municipality		Fax:	200
Designation		Cell: 072 596 4904	
Managa	ntabindeej@ emalahlem.	Email: 911960@Emalahleni.gov.za / nkabindeej@emalahleni.gov.za	Λ
Organization	Name & Postal Address	Contact Details	Signature
eMalahleni Local	Mpho Makgalemele	Tel:	
Municipality		Fax:	
Designation		Cell:	
		Email: S302182@Emalahleni.gov.za	

Available in Local Municipality         The besignation         The besignation         Tet:         Contact Details         Signature           Organization         Maduduzi Mingormezulu         Tet         Contact Details         Signature           Ewait is 302122@Emalathen is available in coal Municipality         Maduduzi Mingormezulu         Tet         Contact Details         Signature           Municipality         Maduduzi Mingormezulu         Fax:         Contact Details         Signature           Organization         Name & Postal Address         Contact Details         Signature           Ewait is coal         Fax:         Contact Details         Signature           Organization         Name & Postal Address         Coeli:         Contact Details         Signature           Organization         Name & Postal Address         Coeli:         Contact Details         Signature           Organization         Shodrock Ndlovu         Tet:         Contact Details         Signature           Designation         Shodrock Ndlovu         Fax:         Coeli:         Coeli:         Coeli:           Municipality         Fax:         Coeli:         Coeli:         Coeli:         Coeli:         Coeli:           Ewail Address         Coeli:         Fax:         Coeli:         <	Organization	Name & Postal Address	Contact Details	Signature
Cell:   Cell	eMalahleni Local	Thabani Buthelezi	Tel:	
Final   Fortal Address   Email: \$302122@Emalahleni.gov.za	Municipality		Fax:	
Machalar   Name & Postal Address   Email: S302122@Emalathleni.gov.za	Designation		Cell:	
tion         Name & Postal Address         Contact Details           fon         Fax:			Email: \$302122@Emalahleni.gov.za	
Mduduzi Mngomezulu	Organization		Contact Details	Signature
Fax:   Cell: O7/6060/17	- Indiana	Mduduzi Mngomezulu	Tel:	(
Cell:   Confact Off	Municipality		Fax:	/
High Name & Postal Address Contact Details  Tersia Mahlasela  Tersia Mahlasela  Tersia Mahlasela  Fax:  Cell:  Email: S301096@Emalahleni.gov.za  Email: S301096@Emalahleni.gov.za  Fax:  Fax:  Cell:  Fax:  Cell:  Fax:  Fax:	Designation		~	
Iton     Name & Postal Address     Contact Details       Ion     Tel:          Fax:         Cell:           Iton         Name & Postal Address         Contact Details           Iton         Name & Postal Address         Cell:           Iton         Tel:         Fax:           Ion         Tel:           Ion         Tel:           Ion         Tel:           Ion         Email: S302888@Emalahleni.gov.za	With Maggle		Email: \$114950@Emalahleni.gov.za	
ton         Tersia Mahlasela         Tel:         Fax:           Ion         Cell:         Email: S30 1096@Emalahleni.gov.za           Ifon         Name & Postal Address         Contact Details           Shadrack Ndlovu         Tel:         Fax:           Ion         Email: S302888@Emalahleni.gov.za         Email: S302888@Emalahleni.gov.za	Organization	Name & Postal Address	Contact Details	Signature
ton       Cell:       Email: S301096@Emalahleni.gov.za         flon       Name & Postal Address       Contact Details         Shadrack Ndlovu       Tel:       Fax:         ton       Fax:         ton       Email: S302888@Emalahleni.gov.za	- Malahlani I adal	Tersia Mahlasela	Tel:	
Iton     Cell:       Ition     Name & Postal Address     Contact Details       Shadrack Ndlovu     Tel:       Iton     Fax:       Iton     Cell:       Iton     Email: S302888@Emalahleni.gov.za	Municipality		Fax:	
filon     Name & Postal Address     Contact Details       Shadrack Ndlovu     Tel:       flon     Fax:       Iton     Email: S302888@Emalahleni.gov.za	Designation		Cell:	
filtion     Name & Postal Address     Contact Details       Shadrack Ndlovu     Tel:       Fax:     Fax:       Cell:     Cell:       Email: S302888@Emalahleni.gov.za			Email: S301096@Emalahleni.gov.za	
Shadrack Ndlovu	Organization	Name & Postal Address	Contact Details	Signature
Hon	in a language of the language	Shadrack Ndlovu	Tel:	
	Municipality		Fax:	
Email: S302888@Emalahleni.gov.za	Designation		Cell:	
			Email: S302888@Emalahleni.gov.za	

Organization	Name & Postal Address	Contact Details	Signature
eMalahleni Local	Petros Silinda	Tel:	
Municipality		Fax:	T
Designation		Cell:	
		Email: \$210252@Emalahleni.gov.za	
Organization	Name & Postal Address	Contact Details	Signature
- Malableni I ocal	Botha,	Tel:	
Municipality		Fax:	
Designation		Cell:	
Sectional Head: Health		Email: health3@web4us.co.za	
Organization	Name & Postal Address	Contact Details	Signature
eMalahleni Local	Sandile Vilakazi	Tel:	
Municipality		Fax:	
Designation		Cell:	
		<b>Email:</b> \$915200@Emalahleni.gov.za	
Organization	Name & Postal Address	Contact Details	Signature
Nkangala District	Stanford Mofore	Tel:	
Municipality		Fax:	
Designation		Cell:	APOLOGIES
		Email: mafores@nkangaladm.gov.za	ľ

Savannah Environmental  Designation  Organization  Savannah Environmental  Organization  Organizatio	Tel: (011) 656 3237 Fax: (086) 685 0547 Cell: 071 146 1820 / 065 979 3565 Email: reuben@savannahsa.com  Contact Details Signature Tel: 011 656 3237 Fax: 086 685 0547 Cell: 083 377 9112
Reuben Me PO Box 148 SUNNINGH 0547 SUNNINGH 0547	Fax: (086) 685 0547  Cell: 071 146 1820 / 065 979 3565  Email: reuben@savannahsa.com  Contact Details  Tel: 011 656 3237  Fax: 086 685 0547  Cell: 083 377 9112
SUNNINGH 0547  Nicolene V PO Box 148 SUNNINGH 0547	Cell: 071 146 1820 / 065 979 3565  Email: reuben@savannahsa.com  Contact Details  Tel: 011 656 3237  Fax: 086 685 0547  Cell: 083 377 9112
Nicolene V PO Box 148 SUNNINGH 0547	Email: reuben@savannahsa.com  Contact Details  Tel: 011 656 3237  Fax: 086 685 0547  Cell: 083 377 9112
Nicolene V PO Box 148 SUNNINGH 0547	Contact Details  Tel: 011 656 3237  Fax: 086 685 0547  Cell: 083 377 9112
Nicolene V PO Box 14 SUNNINGE 0547	Tel: 011 656 3237 Fax: 086 685 0547 Cell: 083 377 9112
Nicolene V PO Box 14 SUNNINGE 0547	Fax: 086 685 0547 Cell: 083 377 9112
PO Box 14 SUNNINGF 0547	Cell: 083 377 9112
10547	
Lwayo	Email: nicolene@savannahsa.com
Lwayo	I Address Contact Details
	Tel:
	Fax:
Designation	Cell: 078 932 2569
Intern	Email:
Organization Name & Postal Address	I Address Contact Defails

Decommissioning of the Kriel Power Asbestos Landfill Site Focus Group Meeting: eMalahleni Local Municipality

ENV Complayer

Designation

Preciate Denalarion 900 de

cell: 0728554805

Email:

673

069

00

<u>=</u>

Johans Andra

Induction Laced

Marchalle

Fax:

Organization	Name & Postal Address	Contact Details	Signature
ELM	Menhales Gunsh	Tel: GR 690 645/ Fax:	5
Designation		Cell: 0#2 2/3 /093	
Town Pour	÷	Email: greater & endeller, go.ca	)
Organization	Name & Postal Address	Contact Details	Signature
		Tel:	
		Fax:	·
Designation		Cell:	
		Email:	
Organization	Name & Postal Address	Contact Details	Signature
		Tel:	
		Fax:	
Designation		Cell:	φ
		Email:	
Organization	Name & Postal Address	Contact Details	Signature
		Tel:	
		Fax:	·,
Designation		Cell:	
		Email:	
9			