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Heritage Resources Management Process for the Exxaro Matla Mine

Notification of Intent to Develop

Project Number:

EXX4731

Prepared for:

Exxaro Coal Mpumalanga (Pty) Ltd

October 2017


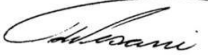
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Name	Responsibility	Signature	Date
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Justin du Piesanie Manager: HRM ASAPA Member 270	Technical Review		October 2017

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TABLE OF CONTENTS

1	Introduction	4
1.1	Project description.....	4
2	Project location.....	4
3	Assessment processes	9
3.1	EIA Regulations listed activities.....	10
3.2	NHRA Section 38(1) activities	10
3.3	Identified / known heritage resources and potential impacts.....	11
4	Illustrative Material	13
5	Recommendation	13

LIST OF FIGURES

Figure 1-1: Graphical representation of bord and pillar to stoping mining methodologies (GCS (Pty) Ltd, 2017)	4
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LIST OF TABLES

Table 1: Project location details	5
Table 2: Landowner details	6
Table 3: Current assessment processes	9
Table 4: Identified listed activities.....	10
Table 5: NHRA Section 38 triggers	10
Table 6: Identified heritage resources in terms of Section 3 of the NHRA	11
Table 7: Specialist heritage recommendations.....	13

LIST OF APPENDICES

Appendix A: Plans

1 Introduction

Exxaro Coal Mpumalanga (Pty) Ltd (hereinafter Exxaro) is presently undertaking a consolidation process of the Environmental Management Programme (EMPr) for the Matla Coal Mine Mining Right Area (MRA). The consolidation is being completed in compliance with the requirements of the Minerals and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA), National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA); the NEMA Regulations, 2014 (Government Notice Regulations [GN R 982]), and the National Water Act (Act No. 36 of 1998) (NWA).

To this effect, Exxaro appointed Digby Wells Environmental (hereinafter Digby Wells) to complete a Heritage Resources Management (HRM) process in support of the EMPr update. This Notification of Intent to Develop (NID) serves to meet the regulatory requirements of the aforementioned legislation and Section 38 of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) (NHRA).

1.1 Project description

In addition to the EMP Consolidation Exxaro propose to apply for complete total extraction (i.e. stope) of previously underground mining areas where bord and pillar mining methods were utilised. Stopping, as the final phase of underground mining techniques, entails the removal of support pillars to exploit the remainder of the coal resource, allowing the “roof” to collapse. This collapse results in surface subsidence.

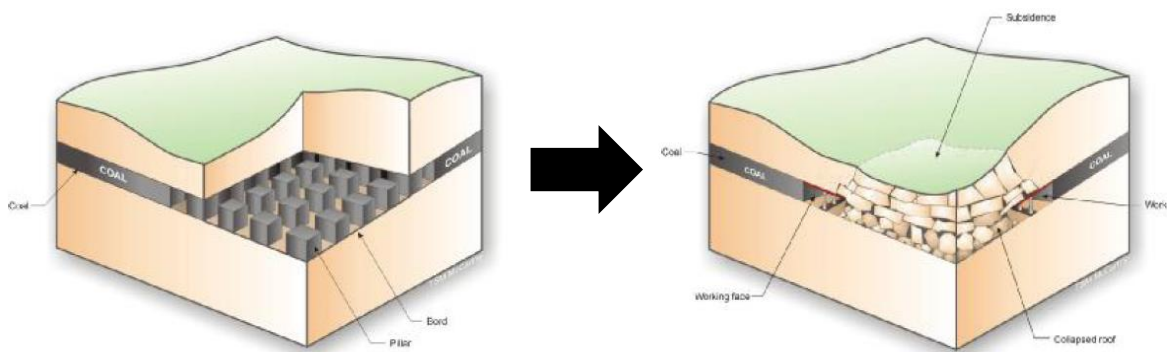


Figure 1-1: Graphical representation of bord and pillar to stopping mining methodologies (GCS (Pty) Ltd, 2017)

2 Project location

The Matla Coal Mine is located approximately 20 km west of Kriel, Mpumalanga Province. The MRA covers an areal extent of ~22 000 ha within the Gert Sibande and Nkangala District Municipalities. The location and extent of the Matla MRA are included in Appendix A.


Table 1: Project location details

Name of property/ies	Matla Coal Mine		
Street address or location (e.g.: Off R44)	North of the R580, east of the R547 and south-east of the R545.		
Erf or farm number/s	BAKENLAAGTE 84 IS Portion 1 BAKENLAAGTE 84 IS Portion 0 BAKENLAAGTE 84 IS Portion 2 BAKENLAAGTE 84 IS Portion 3 BAKENLAAGTE 84 IS Portion 5 GROOTPAN 86 IS Portion 2 GROOTPAN 86 IS Portion 7 GROOTPAN 86 IS Portion 5 GROOTPAN 86 IS Portion 10 GROOTPAN 86 IS Portion 23 GROOTPAN 86 IS Portion 24 GROOTPAN 86 IS Portion 25 GROOTPAN 86 IS Portion 29 GROOTPAN 86 IS Portion 30 GROOTPAN 86 IS Portion 6 GROOTPAN 86 IS Portion 32 KORTLAAGTE 67 IS Portion 9 KORTLAAGTE 67 IS Portion 0 KORTLAAGTE 67 IS Portion 5 KORTLAAGTE 67 IS Portion 6	KORTLAAGTE 67 IS Portion 7 KORTLAAGTE 67 IS Portion 2 KORTLAAGTE 67 IS Portion 4 KORTLAAGTE 67 IS Portion 8 KORTLAAGTE 67 IS Portion 1 KORTLAAGTE 67 IS Portion 10 KORTLAAGTE 67 IS Portion 3 KRUISEMENTFONT EIN 95 IS Portion 2 KRUISEMENTFONT EIN 95 IS Portion 1 MATLA POWER STATION 141 IS Portion 0 MOEDVERLOREN 88 IS Portion 20 MOEDVERLOREN 88 IS Portion 15 MOEDVERLOREN 88 IS Portion 1 MOEDVERLOREN 88 IS Portion 4 MOEDVERLOREN 88 IS Portion 5 MOEDVERLOREN 88 IS Portion 26 MOEDVERLOREN 88 IS Portion 23 NOOITGEDACHT 94 IS Portion 1 NOOITGEDACHT 94 IS Portion 2 NOOITGEDACHT 94 IS Portion 4	NOOITGEDACHT 94 IS Portion 6 ONVERWACHT 97 IS Portion 0 OVERWACHT 66 IR Portion 2 ONVERWACHT 97 IS Portion 1 ONVERWACHT 97 IS Portion 5 RIETVLEI 62 IS Portion 2 RIETVLEI 62 IS Portion 8 RIETVLEI 62 IS Portion 9 RIETVLEI 62 IS Portion 14 UITVLUGT 255 IR Portion 1 UITVLUGT 255 IR Portion 2 VIERFONTEIN 61 IS Portion 52 VIERFONTEIN 61 IS Portion 10 VIERFONTEIN 61 IS Portion 19 VIERFONTEIN 61 IS Portion 27 VIERFONTEIN 61 IS Portion 23 VIERFONTEIN 61 IS Portion 22 VIERFONTEIN 61 IS Portion 26 WELTEVREDEN 307 IR Portion 6 WELTEVREDEN 307 IR Portion 10

Coordinates of approximate centre of project area	26.2585866° S
	29.1161468° E
Town or District	Ga Nala (Kriel)
Responsible Municipality	Local: - Emalahleni Local Municipality (ELM) - Goven Mbeki Local Municipality (GMLM) - Victor Khanye Local Municipality (VKLM) District: - Gert Sibande District Municipality (GSDM) - Nkangala District Municipality (NDM)
Extent of property	3127 ha (Considered in the EMPr Update)
Maximum extent of proposed development	232.17 ha
Current use	Mining and agriculture
Predominant land use/s of surrounding properties	Mining and agriculture

Table 2: Landowner details

Name	Property	Contact	Notified
Boshoff Andries Jacobus Gustavus	Bakenlaagte 84 IS Portion 1	AJG Boshoff	No
Bakenlaagte Boerdery Pty Ltd	Bakenlaagte 84 IS Portion 0	Hansie Jacobs	No
	Bakenlaagte 84 IS Portion 2		
	Bakenlaagte 84 IS Portion 3		
Bakenlaagte Trust	Bakenlaagte 84 IS Portion 5		
Venter Hendrik Josephus Francois	Grootpan 86 IS Portion 2	HJF Venter	No
	Grootpan 86 IS Portion 7		
Vosstoffel Pty Ltd	Grootpan 86 IS Portion 5	Nicol De Vos	No
	Grootpan 86 IS Portion 10		
	Grootpan 86 IS Portion 23		

Name	Property	Contact	Notified
	Grootpan 86 IS Portion 24		
	Grootpan 86 IS Portion 25		
Paulana Boerderye Pty Ltd	Grootpan 86 IS Portion 29	Tjaart De Vos	No
	Grootpan 86 IS Portion 30		
Robertson Familie Trust	Grootpan 86 IS Portion 6	Unconfirmed	No
Walt Abel Hermanus Van Der	Grootpan 86 IS Portion 32	Unconfirmed	No
Wenspan Plase Cc	Kortlaagte 67 IS Portion 9	H Prinsloo	No
Venter Hendrik Josephus Francois	Kortlaagte 67 IS Portion 0	HJF Venter	No
	Kortlaagte 67 IS Portion 5		
	Kortlaagte 67 IS Portion 6		
	Kortlaagte 67 IS Portion 7		
Kortlaagte Boerdery Pty Ltd	Kortlaagte 67 IS Portion 2	Jaco Venter	No
	Kortlaagte 67 IS Portion 4		
	Kortlaagte 67 IS Portion 8		
Eskom Holdings SOC Ltd	Kortlaagte 67 IS Portion 1	Jan Coetzee	N/A
	Kortlaagte 67 IS Portion 10		
Hoogland Graan Beleggingsmaatskappy Pty Ltd	Kortlaagte 67 IS Portion 3	Pieter Streicher	No
Vosstoffel Pty Ltd	Kruisementfontein 95 IS Portion 2	Nicol De Vos	No
Octo Consobrini Beleggings Pty Ltd	Kruisementfontein 95 IS Portion 1	Unconfirmed	No
Eskom Holdings Ltd	Matla Power Station 141 IS Portion 0	Jan Coetzee	N/A

Name	Property	Contact	Notified
Erasmus Casper Jan Hendrik	Moedverloren 88 IS Portion 20	CJH Erasmus	No
Venter Hendrik Josephus Francois	Moedverloren 88 IS Portion 15	HJF Venter	No
Cameron John Benjamin Robert	Moedverloren 88 IS Portion 1	John Cameron	No
Erasmus Hermanus Arnoldus	Moedverloren 88 IS Portion 4	MM Erasmus	No
Steyn Dina Maria	Moedverloren 88 IS Portion 5	Steyn Dina Maria	No
	Moedverloren 88 IS Portion 26		
Cameron Susanna Petronella	Moedverloren 88 IS Portion 23	Susan Cameron	No
Omnipact S A Inv 194 Pty Ltd	Nooitgedacht 94 IS Portion 1	Barend Roux	No
Tiger Stripes Inv 32 Pty Ltd	Nooitgedacht 94 IS Portion 2		
	Nooitgedacht 94 IS Portion 4		
Omnipact S A Inv 194 Pty Ltd	Nooitgedacht 94 IS Portion 6		
N Excess Trading 128 Pty Ltd	Onverwacht 97 IS Portion 0	Johan Barnard	No
John Cameron Trust	Onverwacht 66 IR Portion 2	John Cameron	No
Paulana Boerderye Pty Ltd	Onverwacht 97 IS Portion 1	Tjaart De Vos	No
	Onverwacht 97 IS Portion 5		
Eskom Holdings Ltd	Rietvlei 62 IS Portion 2	Jan Coetzee	N/A
	Rietvlei 62 IS Portion 8		
	Rietvlei 62 IS Portion 9		
	Rietvlei 62 IS Portion 14		
John Cameron Trust	Uitvlugt 255 IR Portion 1	John Cameron	No
	Uitvlugt 255 IR Portion 2		

Name	Property	Contact	Notified
Vierfontein Trust	Vierfontein 61 IS Portion 52	Edmund Muller	No
Eskom Holdings Ltd	Vierfontein 61 IS Portion 10	Jan Coetzee	N/A
	Vierfontein 61 IS Portion 19		
	Vierfontein 61 IS Portion 27		
Schwartz Theodore	Vierfontein 61 IS Portion 23	Theo Schwartz	No
Exxaro Coal Mpumalanga Pty Ltd	Vierfontein 61 IS Portion 22	Vinny Moodley	N/A
	Vierfontein 61 IS Portion 26		
John Cameron Trust	Weltevreden 307 IR Portion 6	John Cameron	No
Hoogland Graan Beleggingsmaatskappy Pty Ltd	Weltevreden 307 IR Portion 10	Pieter Streicher	No

3 Assessment processes

The following impact assessment processes are currently being conducted for the proposed project.

Table 3: Current assessment processes

Legislation (e.g. NEMA, MPRDA, etc.)	Current phase of assessment process (e.g. Scoping, EIA, etc.)	Authorities who has / will receive information	Capacity of Authorities
MPRDA	Pre-application	Department of Mineral Resources (DMR) (Mpumalanga)	Competent Authority
NEMA	Pre-application	DMR	Licencing Authority
NWA	Pre-application	Department of Water and Sanitation (DWS)	Licencing Authority
NHRA	NID	SAHRA	Commenting
	NID	Mpumalanga Provincial Heritage Resources Authority (MPHRA)	Commenting

These assessments are required in terms of legislated and / or regulated activities outlined in Sections 3.1 to 3.3 below.

3.1 EIA Regulations listed activities

The proposed development will include the following activities listed in the EIA Regulations, which generally require impact assessments.

Table 4: Identified listed activities

NEMA Activity No.	NHRA Trigger	Description	Expected duration/phase
Activity 19 of GN R 983	38(1)(c)(i)	Rehabilitation of goafing areas, where areas are stripped of vegetation and topsoil, shaped and then topsoiled and re-vegetated.	Operational
Activity 6 of GN R 984	38(8)	Application for an IWULA for activities triggered in terms of Section 21 of the NWA	Operational
Activity 15 of GN R 984	38(1)(c)(i)	Rehabilitation of goafing areas, where areas are stripped of vegetation and topsoil, shaped and then topsoiled and re-vegetated.	Operational
Activity 17 of GN R 984	38(1)(c)(i)	Stooping (Mining of pillars)	Operational

3.2 NHRA Section 38(1) activities

The proposed development will include the following activities listed in Section 38(1) of the NHRA, which generally require heritage assessments to be undertaken.

Table 5: NHRA Section 38 triggers

NHRA Section 38 (1) Activities / Triggers			Summary description (e.g. 500 m conveyor belt, open cast pit, etc.)
<input type="checkbox"/>	a	Any linear development or barrier >300 m	-
<input type="checkbox"/>	b	Any bridge or similar structure >50 m	-
<input checked="" type="checkbox"/>	c	Any development or activity that will change the character of a site:	-
	<input checked="" type="checkbox"/>	i ≥5 000m ² in extent	The amendment area is 232 ha.
	<input type="checkbox"/>	ii Involving ≥3 existing erven/ subdivisions	-

NHRA Section 38 (1) Activities / Triggers			Summary description (e.g. 500 m conveyor belt, open cast pit, etc.)
<input type="checkbox"/>	iii	Involving ≥3 or more erven/ divisions consolidated within past 5 years.	-
<input type="checkbox"/>	d	Rezoning of a site ≥10 000m ² in extent.	-
<input checked="" type="checkbox"/>	e	Other triggers, e.g.: in terms of other legislation, (i.e.: National Environment Management Act, etc.)	MPRDA; NEMA; and NWA

3.3 Identified / known heritage resources and potential impacts

Certain categories of heritage resources, if identified / existing, generally require heritage assessments to be conducted before any development may take place. These categories may also be formally or generally protected in terms of the NHRA. Table 6 presents heritage identified in the region surrounding the Matla Coal Mine MRA.

Table 6: Identified heritage resources in terms of Section 3 of the NHRA

Section	Description
<input checked="" type="checkbox"/>	Places, buildings, structures and equipment of cultural significance
	Description of resource: Structures older than 60 years, protected in terms of Section 34 of the NHRA. Battle of Bakenlaagte associated with the South African War of 1899 to 1902 occurred within the Matla Coal Mine MRA.
	Potential impact: Damage and/or destruction
<input type="checkbox"/>	Places to which oral traditions are attached or which are associated with living
	Description of resource: None identified
	Potential impact: None
<input type="checkbox"/>	Historical settlements and townscapes
	Description of resource: None identified
	Potential impact: None
<input type="checkbox"/>	Landscapes and natural features of cultural significance



	Section	Description
		Description of resource: None identified
		Potential impact: None
<input checked="" type="checkbox"/>	3(2)(e)	Geological resources of scientific or cultural importance
		Description of resource: Lithostratigraphy with a very-high palaeontological sensitivity. The Matla Coal Mine MRA is underlain by the <i>Vryheid Formation</i> .
		Potential impact: Damage to fossiliferous material through underground mining activities.
<input checked="" type="checkbox"/>	3(2)(f)	Archaeology and/or palaeontology (Including archaeological sites and material, fossils, rock art, battlefields & wrecks)
		Description of resource: Sites within the regional study area include palaeontological, Middle and Late Stone Age, and Late Farming Community sites. This includes the site of the Battle of Bakenlaagte.
		Potential impact: Damage and/or damage.
<input checked="" type="checkbox"/>	3(2)(g)	Graves and burial grounds (e.g. ancestral graves, graves of victims of conflict, historical graves & cemeteries)
		Description of resource: A total of 521 records of burial grounds have been identified within the regional study area. At least 13 have been recorded within the Matla Coal Mine MRA.
		Potential impact: Damage and/or destruction
<input type="checkbox"/>	3(2)(h)	Other human remains
		Description of resource: None identified
		Potential impact: None
<input type="checkbox"/>	3(2)(i)	Sites of significance relating to the history of slavery in South Africa
		Description of resource: None identified
		Potential impact: None

	Section	Description
<input type="checkbox"/>	3(2)(j)	Movable objects
		Description of resource: None identified
		Potential impact: None

4 Illustrative Material

Illustrative material is provided in Appendix A. The illustrative material demonstrates the general Project locality.

5 Recommendation

A summary and motivation of the specialist recommendations is provided in Table 7:

Table 7: Specialist heritage recommendations

Is a Heritage Impact Assessment required?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If NO, provide motivation: -			
If YES, provide suggested components that may be required or undertaken during HIA.			
<input type="checkbox"/>	Archaeology	<input type="checkbox"/>	Architecture
<input checked="" type="checkbox"/>	Built Environment	<input checked="" type="checkbox"/>	Burial Grounds and Graves
<input checked="" type="checkbox"/>	Palaeontology	<input type="checkbox"/>	Public Participation
<input type="checkbox"/>	Townscapes	<input type="checkbox"/>	Visual Impact
<input type="checkbox"/>	Other:		
Recommendation made by:			
Name: Shannon Hardwick		Name: Justin du Piesanie	
Capacity: Heritage Resources Unit Intern		Capacity: Manager: HRM	

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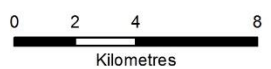
Appendix A: Plans



Exxaro Matla HRM: Local Setting

Legend		
	Project Area	
	Secondary Town	
	Other Town	
	Settlement	
	Arterial / National Road	
	Main Road	
	Minor Road	
	Railway Line	
	Non - Perennial Stream	
	Perennial Stream	
	Dam Wall	
	Dam / Lake	
	Non-Perennial Pan	
	Perennial Pan	
	Wetland	

Projection: Transverse Mercator
 Central Meridian: 29°E
 Datum: WGS 1984
 Date: 29/09/2017
 Ref #: kam.EXX4731.201909.186


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