ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
DFFE	Department of Forestry, Fisheries and Environment
EA	Environmental Authorisation
Impala	Impala Platinum Limited
MPRDA	Mineral and Petroleum Resources Development Act (No. 28 of 2002)
MR	Mining Right
NEM: AQA	National Environmental Management: Air Quality Act (No. 39 of 2004)
NEM: WA	National Environmental Management: Waste Act (No. 59 of 2008)
NEMA	National Environmental Management Act (No. 107 of 1998)
NFEPA	National Freshwater Ecosystem Priority Area
NWS	National Water Act (No. 36 of 1998(
PGM	Platinum Group Metals
SLR	SLR Consulting (Africa) (Pty) Ltd
SSVR	Site Sensitivity Verification Report
WRD	Waste Rock Dump

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1. INTRODUCTION

1.1 PROJECT BACKGROUND AND DESCRIPTION OF THE ACTIVITY

Impala Platinum Limited (Impala), a member of the Implats group of companies, has a platinum group metals (PGM) mining and processing operation located approximately 16 km north-north-west of the town of Rustenburg, in the Rustenburg Local Municipality and the Bojanala Platinum District Municipality, North West Province. A locality map is provided in Figure 1.

Impala holds existing Environmental Authorisations (EAs) and licenses under the Mineral and Petroleum Resources Development Act, 28 of 2002 (MPRDA), the National Environmental Management Act, 107 of 1998 (NEMA), the National Water Act, 36 of 1998 (NWA), the National Environmental Management: Waste Act, 59 of 2008 (NEM: WA) and the National Environmental Management: Air Quality Act, 39 of 2004 (NEM: AQA).

Impala's Shaft 16 Complex is located on the farm Reinkoyalskraal 278 JQ and is comprised of a main shaft for access to the underground areas, waste rock dumps (WRD), stockpile areas, and support services.

As part of its on-going mine planning, Impala has identified the need for additional parking bays on site to accommodate the increasing number of employees at the Shaft 16 Complex using their own vehicles. In this regard, Impala is proposing to expand the parking area. The proposed expansion will be undertaken within Impala's Mining Right (MR) boundary, but outside of the current boundary of the Shaft 16 Complex and will cover an area of approximately 2.5 ha.

SLR Consulting (Africa) (Pty) Ltd (SLR), an independent firm of environmental consultants, has been appointed by Impala to manage the EA process.

1.2 PURPOSE OF THE REPORT

As part of the EA process, the Department of Forestry, Fisheries and Environment's (DFFE) national web-based environmental screening tool was applied in order to identify environmental sensitivities within the proposed project area. The screening tool report indicated a low level of sensitivity for the landscape/visual component of the proposed project (see Appendix A). A Site Sensitivity Verification Report (SSVR) must be compiled by an environmental assessment practitioner or specialist to verify the site sensitivity as identified by the screening tool report, where the level of environmental sensitivity is deemed low. In this regard, this SSVR has been compiled in accordance with the Procedures for the Assessment and Minimum Criteria for Reporting on Identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of NEMA and will detail the landscape/visual component of the proposed project.

Aggeney

25000 30000 -2825000 -2830000

VLAKFONTEIN
276 JQ
274 JQ
278 JQ
282 JQ
REINKOYALSKRAAL
278 JQ
ELANDSHEUWEL

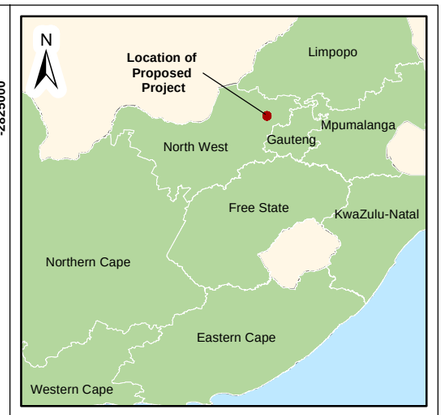
Serutube
Mafika
Setlhokwe
Kanana
Matalaneng
Freedom Park

Location of the Proposed Parking Area Expansion

Motlhabe 1187
Pelane 1210
Mafotlhelo 1242.1
Matshelapata
Kgapatswai 1194
Phetwane
Rankunyana
Radintsha
Chachalaza

R510
To Van Zylsrus
Slimes Dam
Shaft
Sewage Works
Conveyor Belt
WILDEBEESFONTEIN MINE No. 1 Shaft
Furrow
Hex River
Bospoort Dam

1153 1142 1120 1114 1100 1238 1186 1080 1096 1094 1106 1108 1109 △208 1117.6



Legend

- Towns / Villages
- Main Roads
- Power Line
- Railway Line
- Rivers
- Dams
- Impala Surface Use Area
- Proposed Parking Area Expansion

0 0,5 1 Kilometers

Scale: 1:30 000 @ A3

Projection:Transverse Mercator
Datum: Hartebeeshoek, Lo 27

Impala Platinum Limited

Figure 1

Local Setting

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2. METHODOLOGY

A description of the methods used to compile this SSVR is provided in Table 1 below.

Table 1: Data type and source for the SSVR

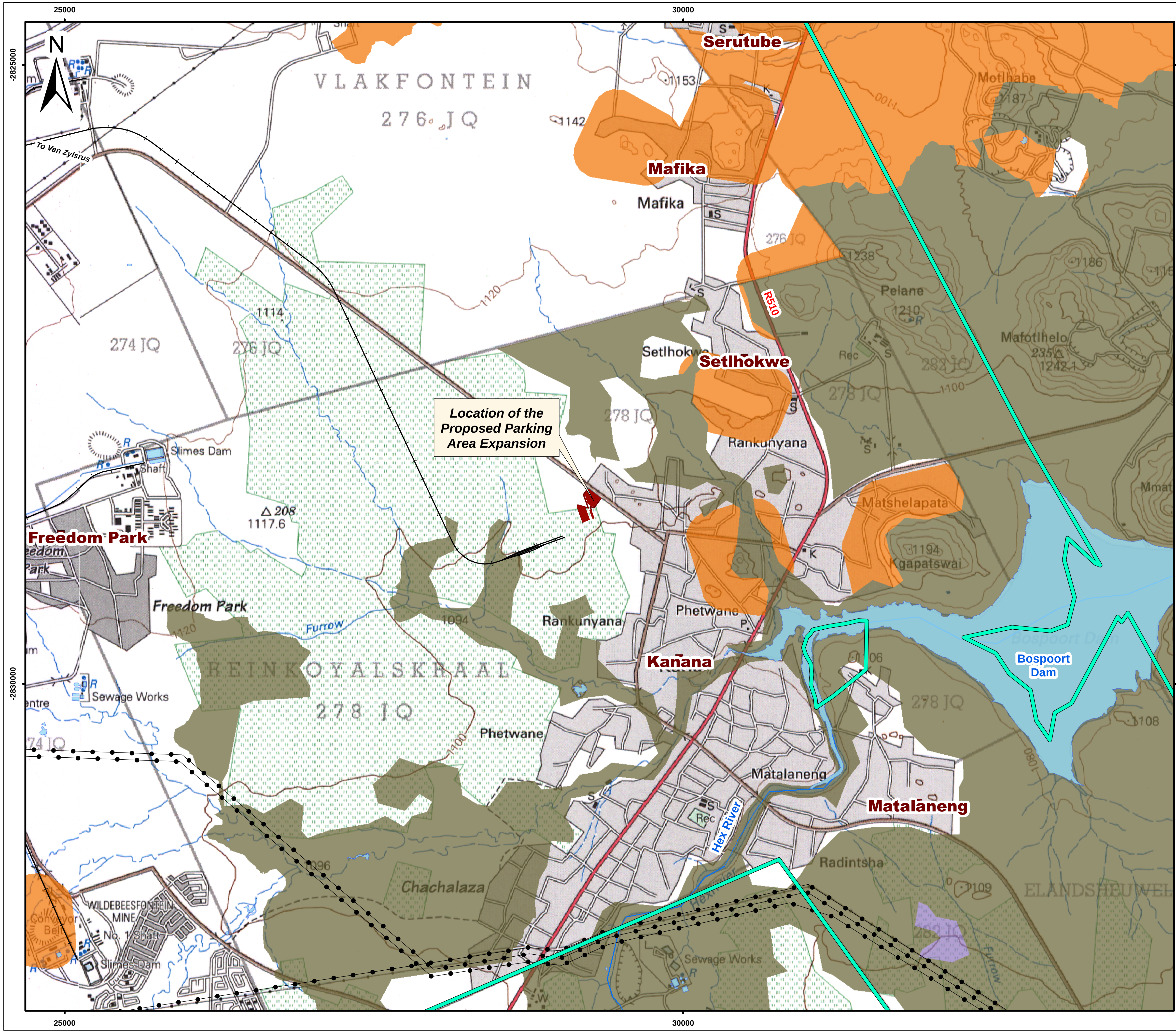
Methodology	Data type	Year	Source/Reference
Desktop Analysis	Aerial Imagery	1984 - present	Google Earth
	Existing authorisations, studies and assessments undertaken for the study area and surrounds	2007 - present	Impala
Site inspection	Site photographs	2021	SLR

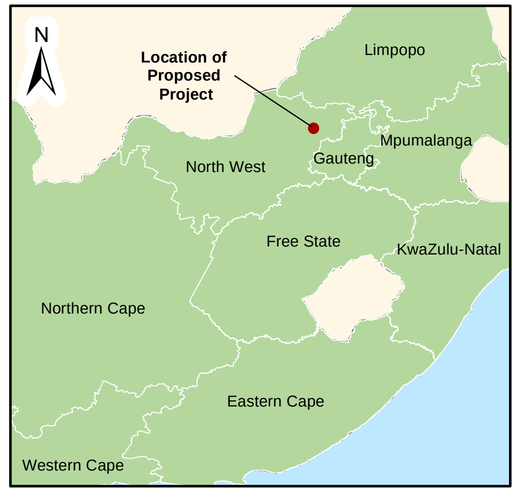
3. DESKTOP ANALYSIS

Impala's Shaft 16 falls within the Highveld Climatic Zone, characterised by rainy seasons with heavy thunderstorms and high evaporation rates with generally mild temperatures. The landscape character of the area is defined by gentle undulating plains, koppies, communities and mining infrastructure. The geology of the area is associated with the Bushveld Igneous Complex of the Rustenburg Layered Suite. The area falls within the Marikana Thornveld vegetation type which is characterised by undulating plains and lowland hills. The greater area is drained by the Quaternary Catchment A22H which falls within the Limpopo A drainage region.

The proposed project area is located adjacent to and to the north-east of Impala's Shaft 16 Complex. The area is located approximately 1 105 m above sea level and is a relatively flat area in terms of topography. The project area does not fall within any Critical Biodiversity Areas or Ecological Support Areas (see Figure 2). There are no watercourses or wetlands within the proposed project area or within 500 m of the area. No National Freshwater Ecosystem Priority Areas (NFEPA) have been identified within the proposed project area (see Figure 3). An electrical servitude comprising an overhead powerline runs through the proposed project area. A stormwater drainage culvert is adjacent to the site. The proposed project area is bordered by existing access roads to the north and west that are utilised to gain access to Impala's Shaft 16 Complex.

The Kanana residential area is located 100 m to the east of the site. This residential area is comprised of formal and informal housing in a ribbon development along the R510. The majority of the houses are on the other side of one of the access roads from the proposed site.





Legend

- Impala Surface Use Area
- Proposed Parking Area Expansion
- Towns / Villages
- Main Roads
- Power Line
- Railway Line
- Rivers
- Dams

North West CBA and ESA (2015)

- Critical Biodiversity Area 1
- Critical Biodiversity Area 2
- Ecological Support Area 1
- Ecological Support Area 2

0 0,5 1 Kilometers

Scale: 1:30 000 @ A3

Projection:Transverse Mercator
Datum: Hartebeesthoek, Lo 27

Impala Platinum Limited

Figure 2

Biodiversity Sensitivity

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Aggeney

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N

VLAKFONTEIN 276 JQ

Serutube

Mafika

Mafika

Motlhabe

Pelane

Setlhokwe

Setlhokwe

Mafotlhelo

R510

Location of the Proposed Parking Area Expansion

Rankunyana

Matshelapata

Freedom Park

Freedom Park

Freedom Park

Kanana

Phetwane

Rankunyana

Bospoort Dam

REINKOTALSKRAAL 278 JQ

Phetwane

Matalaneng

Matalaneng

Hex River

Radintsha

Chachalaza

WILDEBEESFONTEIN MINE

ELANDSHEUWE

Sewage Works

Slimes Dam

To Van Zylsrus

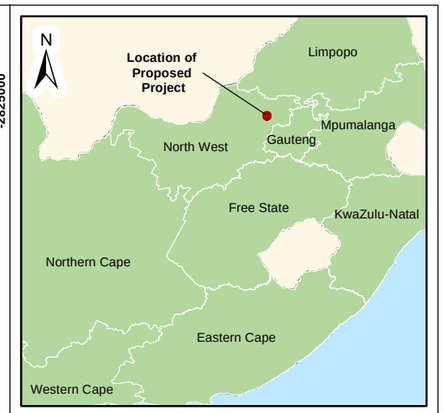
Furrow

Hex

1153 1142 1187 1238 1186 1210 1242.1 1194 1106 1108 1094 1096 1109 1117.6 △208

1120 1100 1080

274 JQ 276 JQ 278 JQ 282 JQ



Legend

- Impala Surface Use Area
- Proposed Parking Area Expansion
- Towns / Villages
- Main Roads
- Power Line
- Railway Line
- Rivers
- Dams

NFEPA Rivers

- CLASS C: Moderately Modified

NFEPA Wetlands

- Channelled valley-bottom wetland
- Unchannelled valley-bottom wetland
- Valleyhead seep
- Flat

0 0,5 1 Kilometers

Scale: 1:30 000 @ A3

Projection:Transverse Mercator
Datum: Hartebeeshoek, Lo 27

Impala Platinum Limited

Figure 3

NFEPA

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4. SITE VERIFICATION

SLR undertook a site visit to the proposed project area on 23 April 2021. The aim of the site visit was to confirm the environmental sensitivity of the landscape/visual component.

Physical landscape characteristics such as topography, vegetation, and land use are important factors influencing the visual character and visual sensitivity of an area. In this regard, the proposed project area is characterised as fairly flat in terms of topography, vegetated by low grasses used for grazing (see Figure 4 and Figure 5). For this reason, the area has been largely transformed and is no longer representative of the Marikana Thornveld vegetation type. The project site is currently vacant; however, an overhead transmission line traverses the area (see Figure 4 and Figure 5) and a stormwater culvert is located adjacent to the site (see Figure 6). The site is adjacent to Impala's Shaft 16 Complex (see Figure 7) and positioned alongside the existing parking area.

Figure 4: View of the proposed project area depicting grasses and the overhead powerline

Figure 5: Additional view of the proposed project area depicting grasses and the overhead powerline

Figure 6: View of the stormwater culvert adjacent to the proposed project area

Figure 7: View of proposed project area (foreground) with Impala's Shaft 16 Complex in the background (red rectangle)

Visual receptor locations and routes that are sensitive and / or potentially sensitive to the visual intrusion of the proposed project include the Kanana residential area located 100 m to the east, and two access roads bordering the proposed project area that are used to gain access to Impala's Shaft 16 Complex. The proposed project is not considered to have a significant visual impact on these areas given the following details:

- the proposed project entails the expansion of an existing parking area;
- it is located adjacent to the existing Shaft 16 Complex, which is visually intrusive (refer to Figure 7);
- the majority of the Kanana residential area is on the other side of one of the access roads from the proposed project area, with the Shaft 16 complex being visible in the background; and
- the proposed location is beneath an existing overhead powerline.

It follows that the **LOW** environmental sensitivity of the proposed project area for the landscape/visual component, as identified by the DFFE's national web-based screening tool, is confirmed.

5. CONCLUSION

The proposed project area relatively flat in topography, comprises low grasses, and is currently vacant except for the traversing overhead powerline. The area is adjacent to two access roads and Impala's Shaft 16 Complex. Given that the proposed project entails the expansion of the parking area at the Shaft 16 Complex, the outcome of this SSVR confirms that the environmental sensitivity for the landscape/visual component of the project area is **LOW**. This is in line with the environmental sensitivity identified in the DFFE's screening tool report.

Dylan Moodaley
(Report Author)

Rizqah Baker
(Project Manager)

Ed Perry
(Reviewer)

APPENDIX A: SCREENING TOOL REPORT

SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

EIA Reference number: TBC

Project name: Basic Assessment Report

Project title: Parking Area Expansion at the Impala Platinum Mine

Date screening report generated: 17/02/2021 08:59:14

Applicant: Impala Platinum Limited

Compiler: Rizqah Baker

Compiler signature: 

Application Category: Transformation of land|Indigenous vegetation

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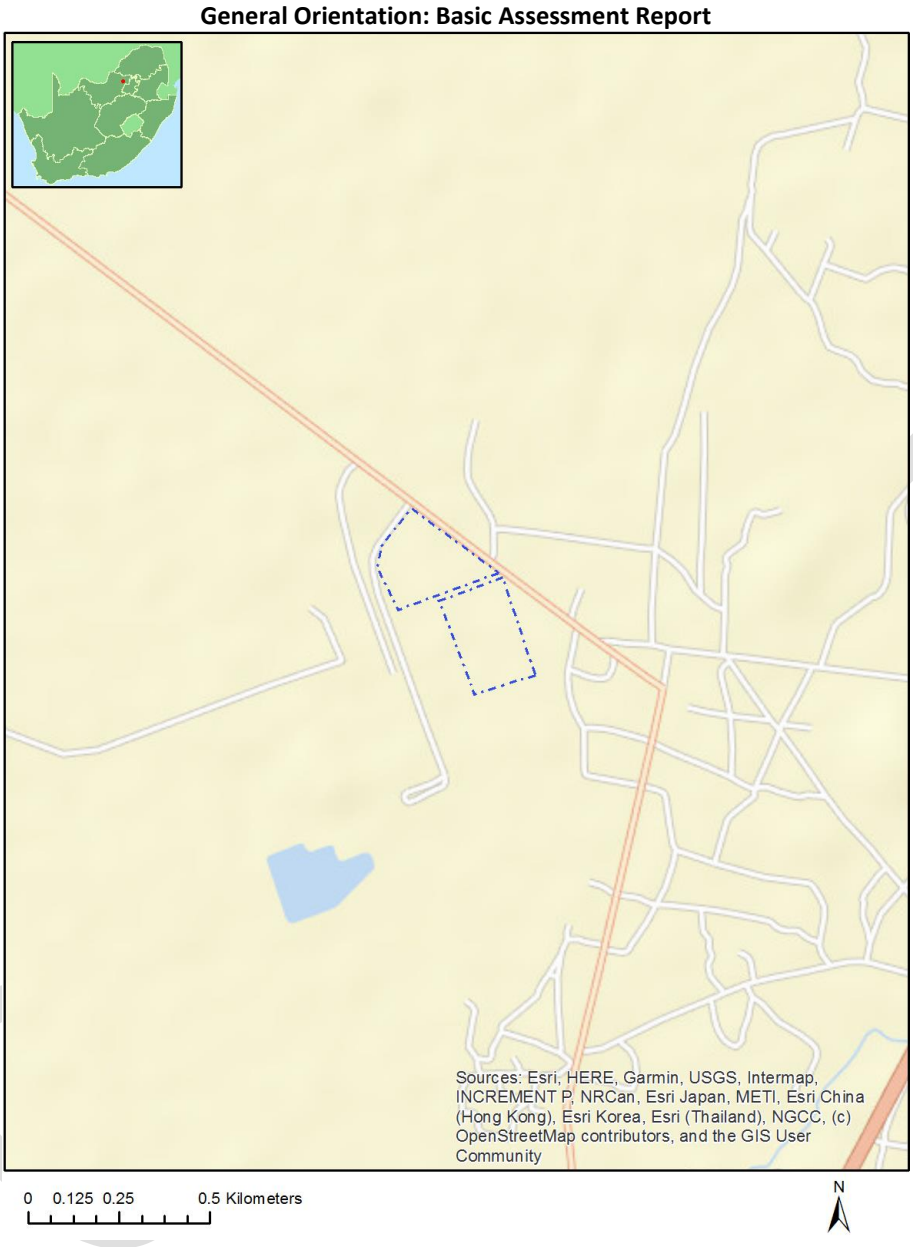
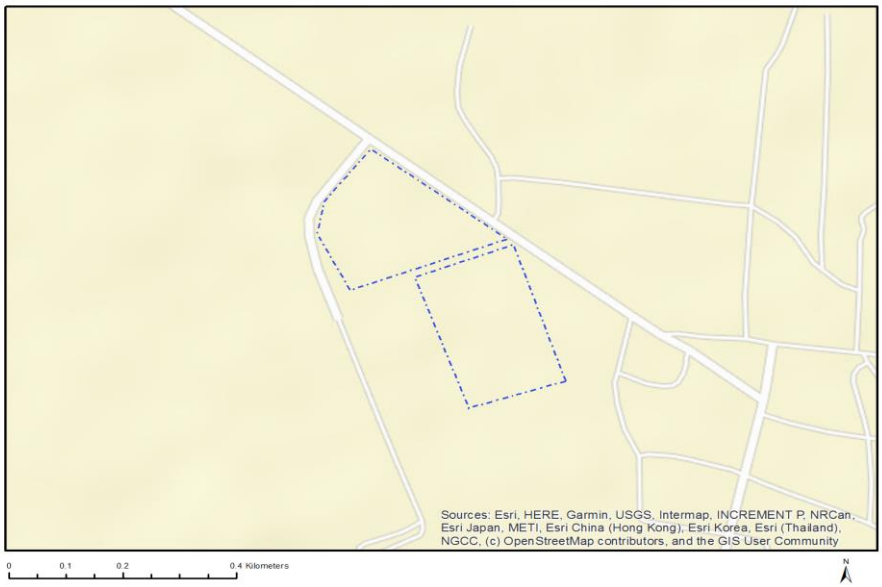
Proposed Project Location

Orientation map 1: General location



Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	REINKOYALSKRAAL	278	0	25°34'32.67S	27°17'22.13E	Farm
2	REINKOYALSKRAAL	278	3	25°34'23.26S	27°16'50.37E	Farm Portion

Development footprint[1] vertices:
No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/2145	Solar PV	Approved	24.7
2	12/12/20/2283	Solar PV	Approved	24.7

Environmental Management Frameworks relevant to the application

[1] "development footprint", means the area within the site on which the development will take place and incudes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

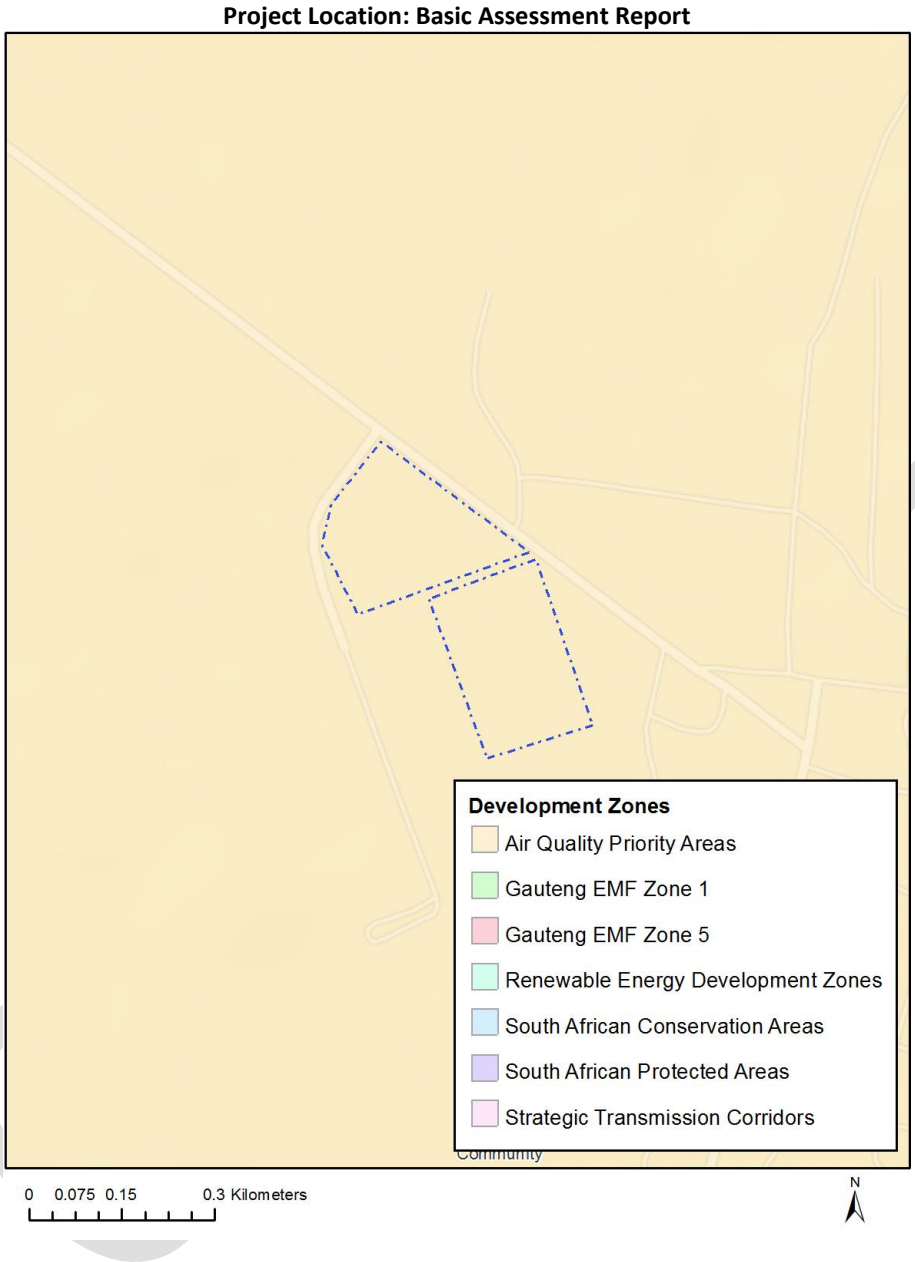
The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is: **Transformation of land|Indigenous vegetation**.

Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive, restriction or prohibition	Implication
Air Quality-Waterberg-Bojanala Priority Area	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/gg39489_nn1207a.pdf

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones



Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			X	
Animal Species Theme				X

Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme		X		
Civil Aviation Theme			X	
Defence Theme				X
Paleontology Theme			X	
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			

Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

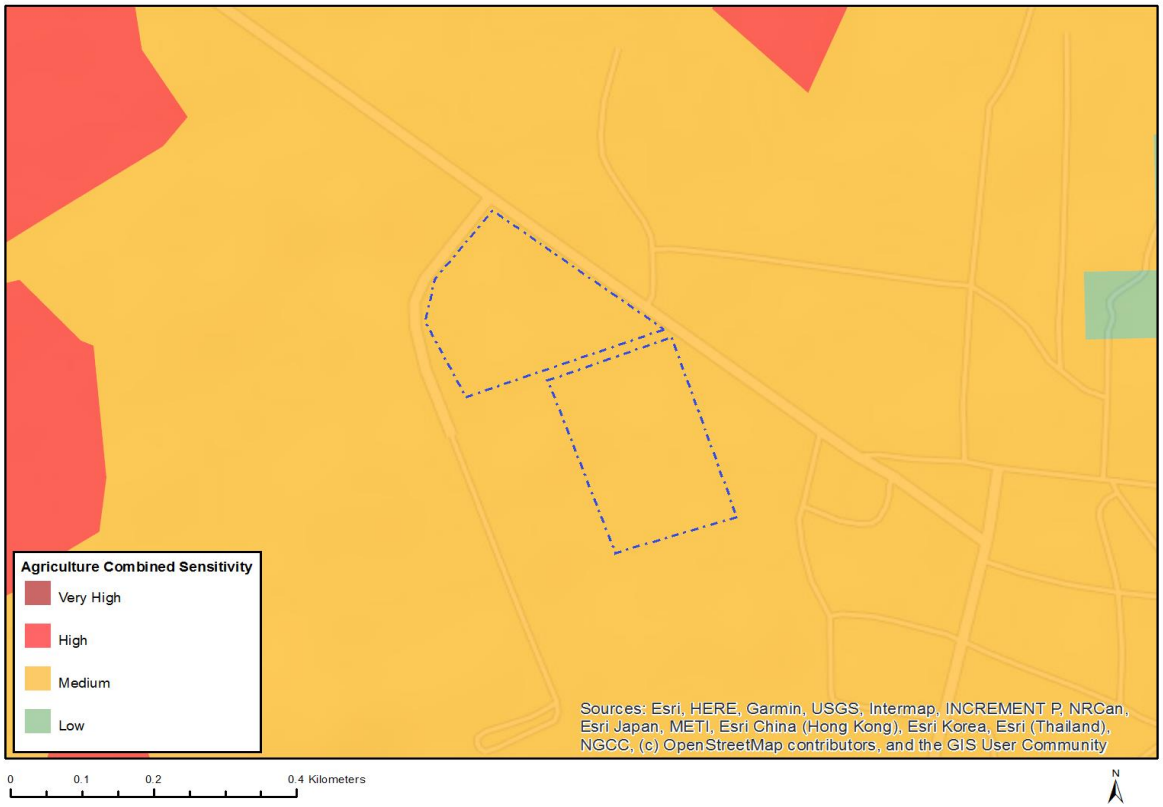
No	Specialist assessment	Assessment Protocol
1	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf
7	Socio-Economic	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

	Assessment	
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
9	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

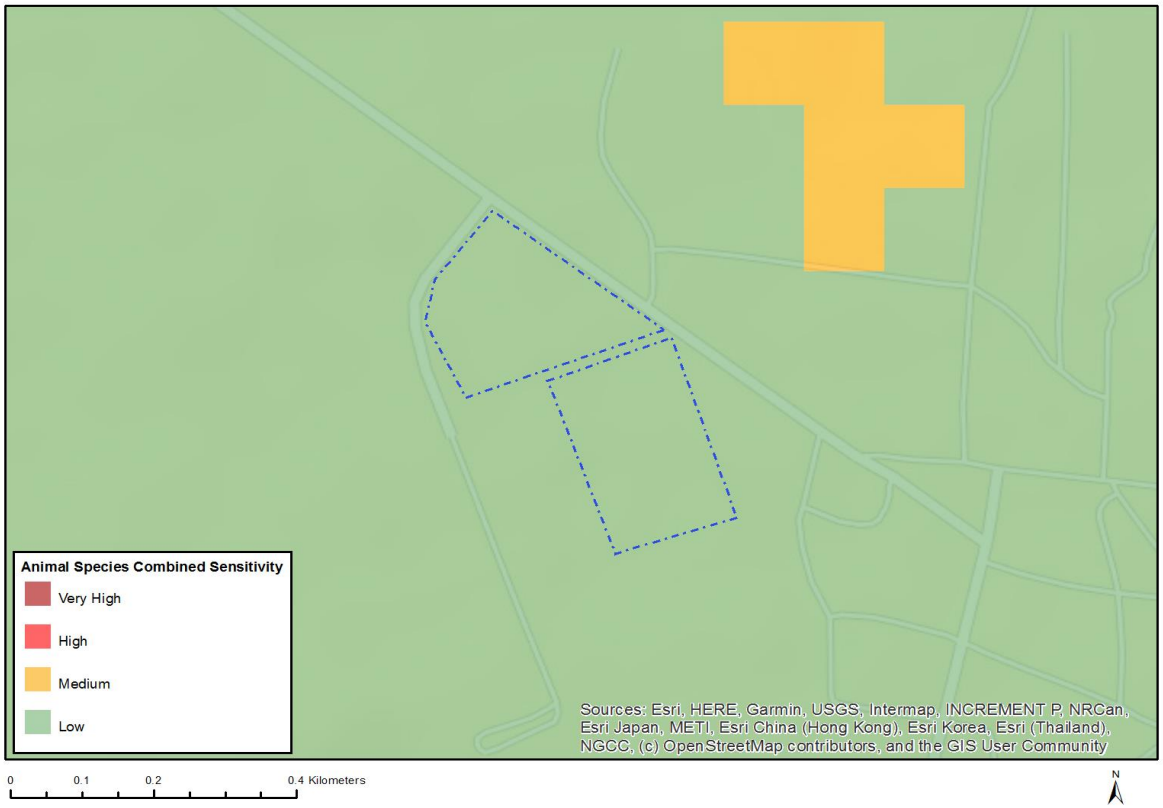


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



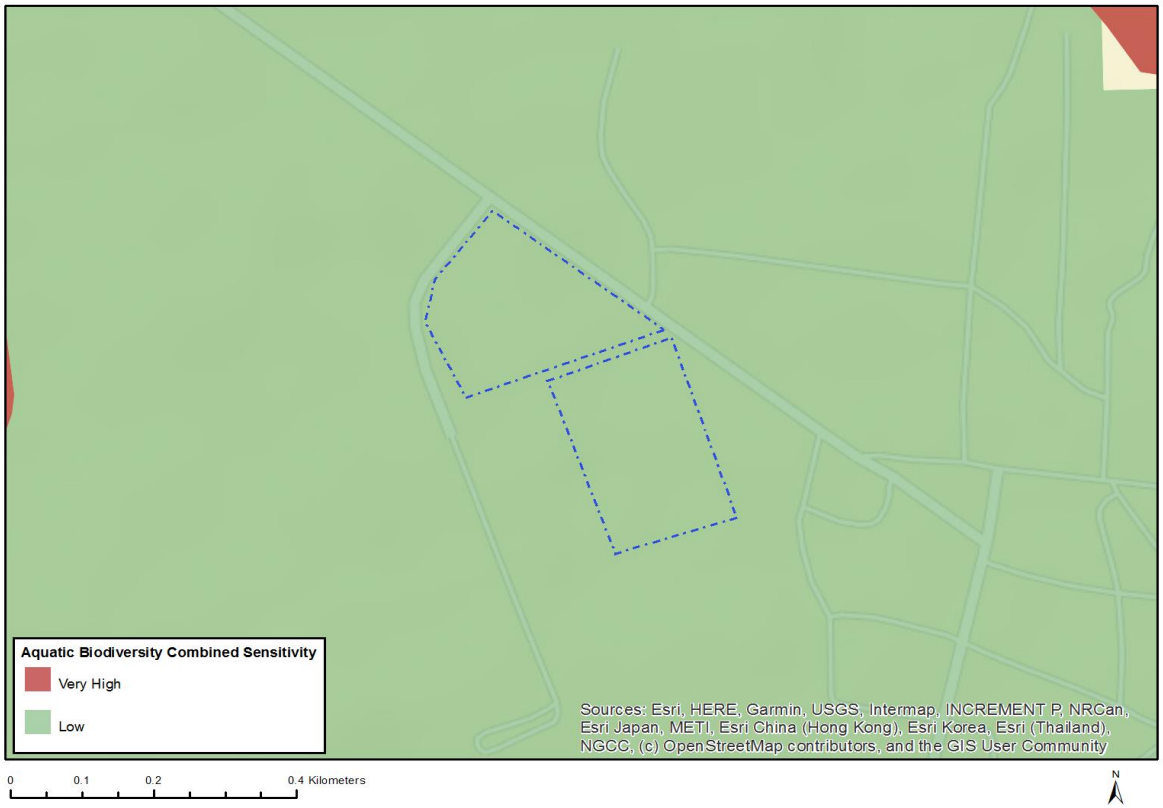
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

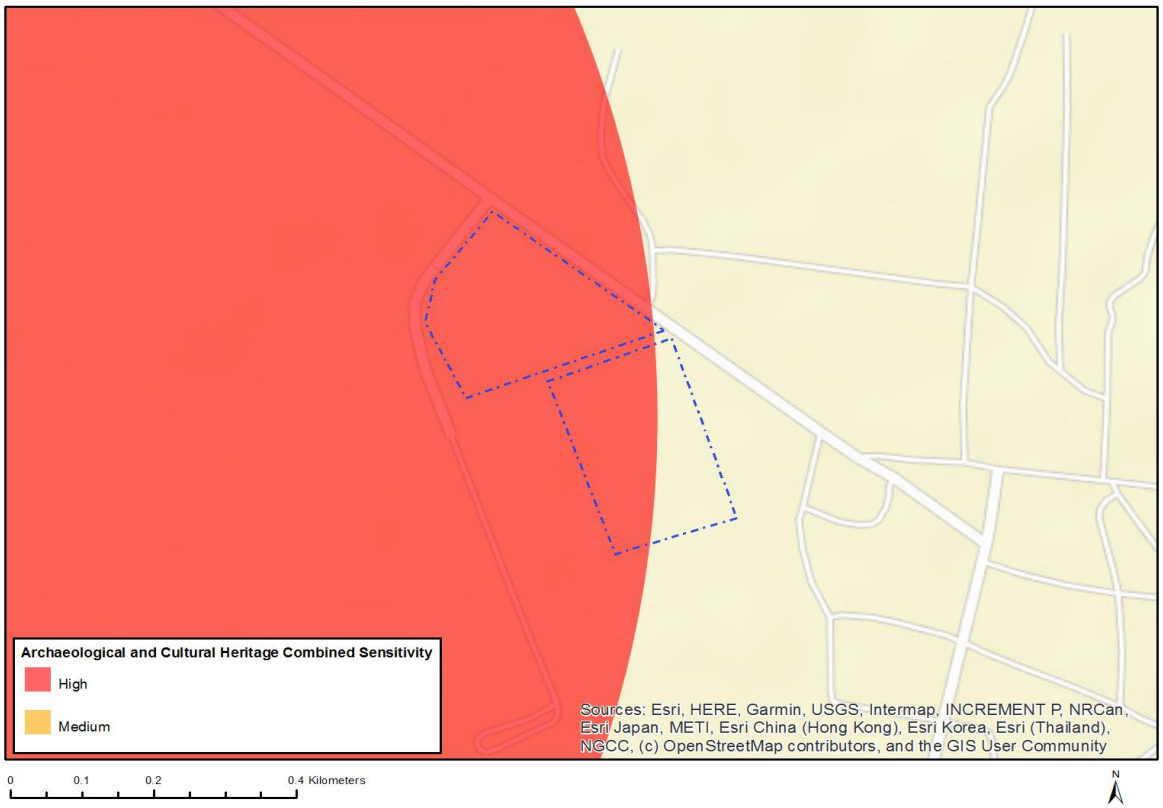


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

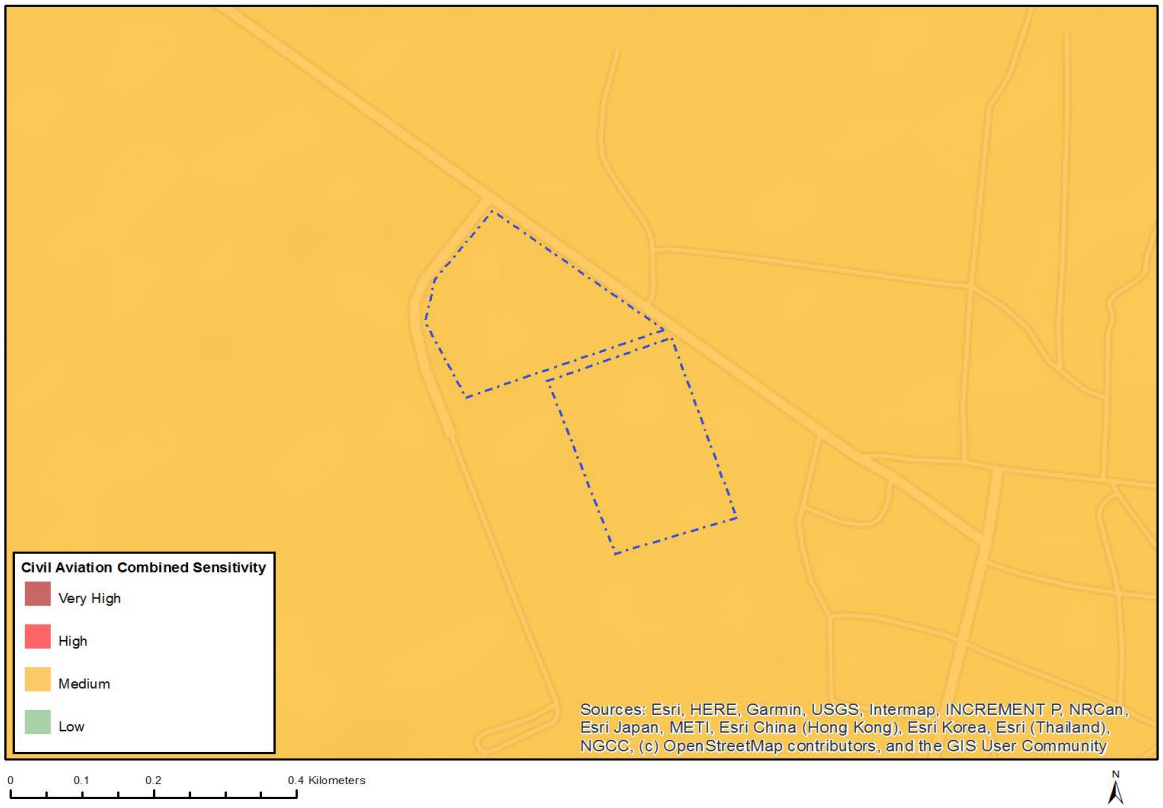


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 500 m of a heritage site

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

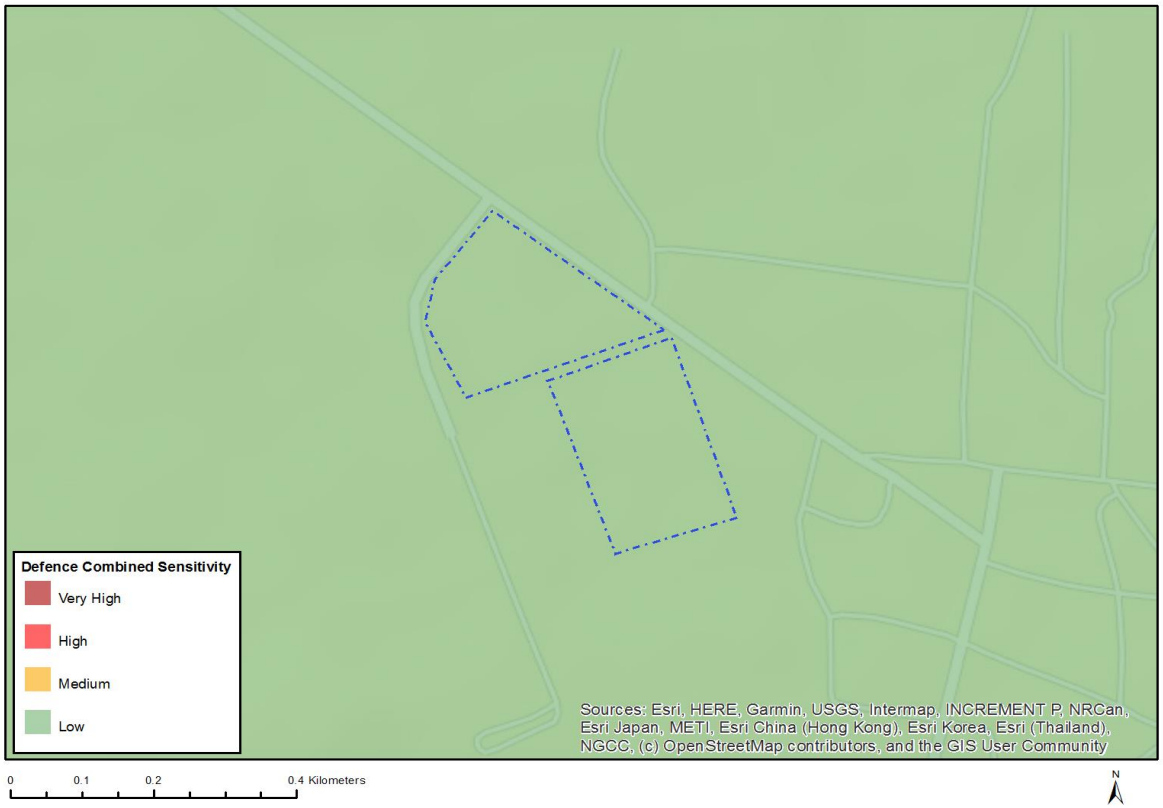


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Between 8 and 15 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

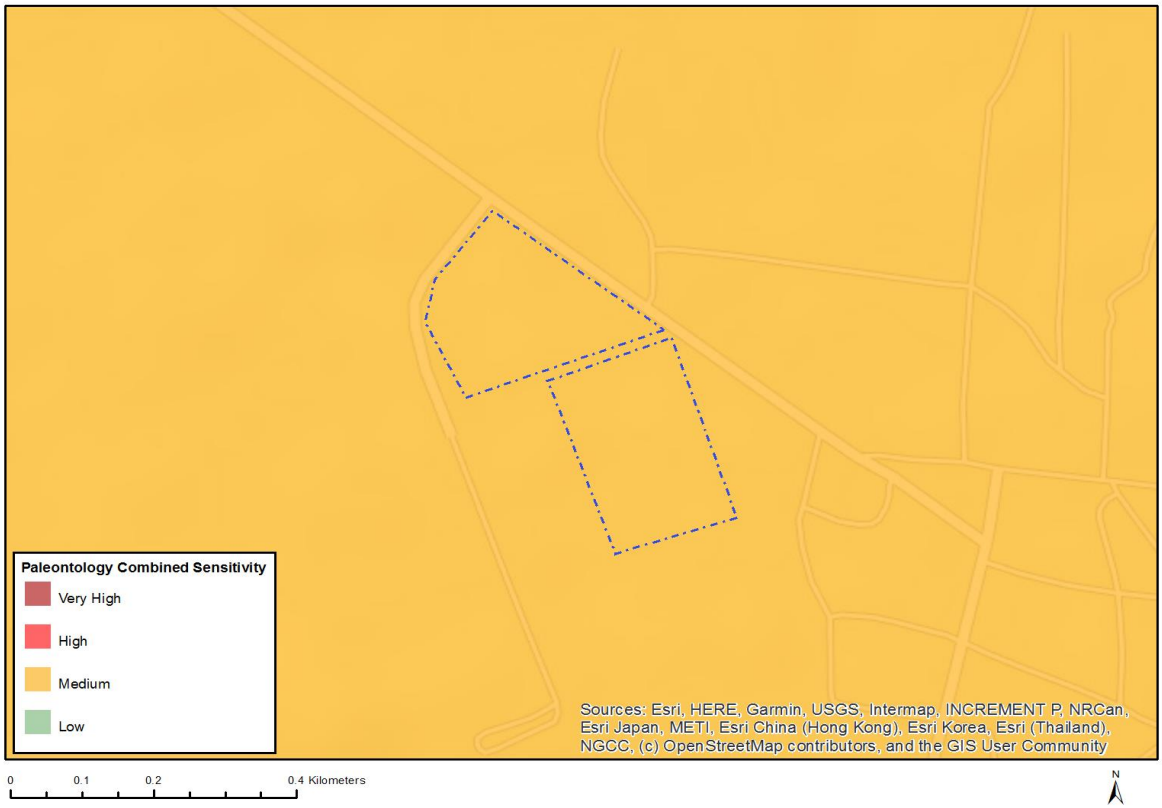


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

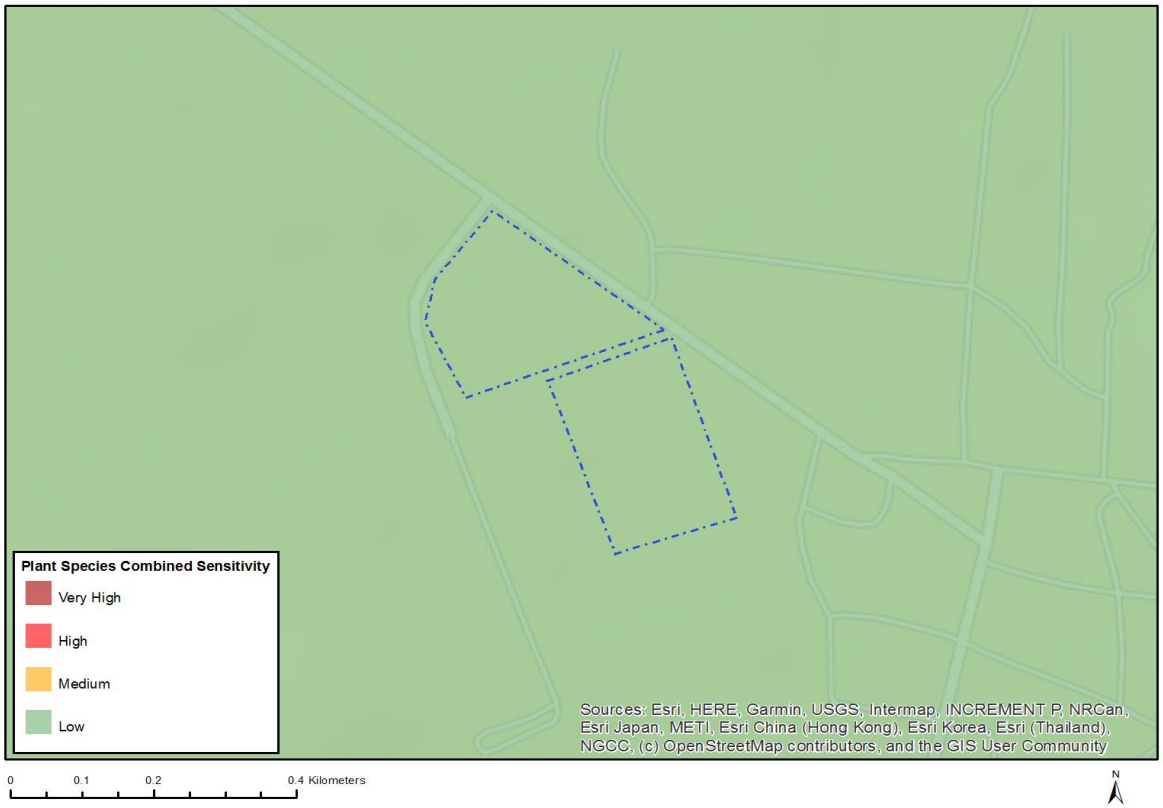


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Features with a Medium paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Vulnerable ecosystem

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PROPOSED EXPANSION OF THE PARKING AREA AT THE SHAFT 16 COMPLEX, IMPALA PLATINUM MINE, RUSTENBURG OPERATION - SOCIO-ECONOMIC SITE SENSITIVITY VERIFICATION REPORT

Prepared for: Impala Platinum Limited

DMRE Reference: TBC

SLR Project No.: 710.09003.00143
Report No.: 1
Revision No.: 0
July 2021

DOCUMENT INFORMATION

Title	Proposed Expansion of the Parking Area at the Shaft 16 Complex, Impala Platinum Mine, Rustenburg Operation - Socio-Economic Site Sensitivity Verification Report
Project Manager	Rizqah Baker
Project Manager Email	rbaker@slrconsulting.com
Author	Dylan Moodaley
Reviewer	Ed Perry
Keywords	Basic Assessment, Impala Platinum Mine, Shaft 16 Complex, SSVR, Socio-economic
Status	Issued for inclusion into Basic Assessment Report
DFFE Reference	N/A
DMRE Reference	TBC
DWS Reference	N/A
Report No.	1
SLR Company	SLR Consulting (Africa) (Pty) Ltd

DOCUMENT REVISION RECORD

Rev No.	Issue Date	Description	Issued By
0	July 2021	Issued for inclusion into Basic Assessment Report	RB

BASIS OF REPORT

This document has been prepared by an SLR Group company with reasonable skill, care and diligence, and taking account of the manpower, timescales and resources devoted to it by agreement with **Impala Platinum Limited** (the Client) as part or all of the services it has been appointed by the Client to carry out. It is subject to the terms and conditions of that appointment.

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ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
DFFE	Department of Forestry, Fisheries and Environment
EA	Environmental Authorisation
GDP	Gross Domestic Product
GVA	Gross Value Added
Impala	Impala Platinum Limited
MPRDA	Mineral and Petroleum Resources Development Act (No. 28 of 2002)
MR	Mining Right
NEM: AQA	National Environmental Management: Air Quality Act (No. 39 of 2004)
NEM: WA	National Environmental Management: Waste Act (No. 59 of 2008)
NEMA	National Environmental Management Act (No. 107 of 1998)
NFEPA	National Freshwater Ecosystem Priority Area
NWS	National Water Act (No. 36 of 1998(
PGM	Platinum Group Metals
SLR	SLR Consulting (Africa) (Pty) Ltd
SSVR	Site Sensitivity Verification Report
WRD	Waste Rock Dump

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1. INTRODUCTION

1.1 PROJECT BACKGROUND AND DESCRIPTION OF THE ACTIVITY

Impala Platinum Limited (Impala), a member of the Implats group of companies, has a platinum group metals (PGM) mining and processing operation located approximately 16 km north-north-west of the town of Rustenburg, in the Rustenburg Local Municipality and the Bojanala Platinum District Municipality, North West province. A locality map is provided in Figure 1.

Impala holds existing Environmental Authorisations (EAs) and licenses under the Mineral and Petroleum Resources Development Act, 28 of 2002 (MPRDA), the National Environmental Management Act, 107 of 1998 (NEMA), the National Water Act, 36 of 1998 (NWA), the National Environmental Management: Waste Act, 59 of 2008 (NEM: WA) and the National Environmental Management: Air Quality Act, 39 of 2004 (NEM: AQA).

Impala's Shaft 16 Complex is located on the farm Reinkoyalskraal 278 JQ and is comprised of a main shaft for access to the underground areas, waste rock dumps (WRD), stockpile areas, and support services.

As part of its on-going mine planning, Impala has identified the need for additional parking bays on site to accommodate the increasing number of employees at the Shaft 16 Complex using their own vehicles. In this regard, Impala is proposing to expand the parking area. The proposed expansion will be undertaken within Impala's Mining Right (MR) boundary, but outside of the current boundary of the Shaft 16 Complex and will cover an area of approximately 2.5 ha.

SLR Consulting (Africa) (Pty) Ltd (SLR), an independent firm of environmental consultants, has been appointed by Impala to manage the EA process.

1.2 PURPOSE OF THE REPORT

As part of the EA process, the Department of Forestry, Fisheries and Environment's (DFFE) national web-based environmental screening tool was applied in order to identify environmental sensitivities within the proposed project area. The screening tool report indicated a low level of sensitivity for the socio-economic component of the proposed project (see Appendix A). A Site Sensitivity Verification Report (SSVR) must be compiled by an environmental assessment practitioner or specialist to verify the site sensitivity as identified by the screening tool report, where the level of environmental sensitivity is deemed low. In this regard, this SSVR has been compiled in accordance with the Procedures for the Assessment and Minimum Criteria for Reporting on Identified Environmental Themes in terms of Sections 24(5)(a) and (h) and 44 of NEMA and will detail the socio-economic component of the proposed project.

Aggeney

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VLAKFONTEIN
276 JQ
274 JQ
278 JQ
282 JQ
REINKOYALSKRAAL
278 JQ
ELANDSHEUWEL

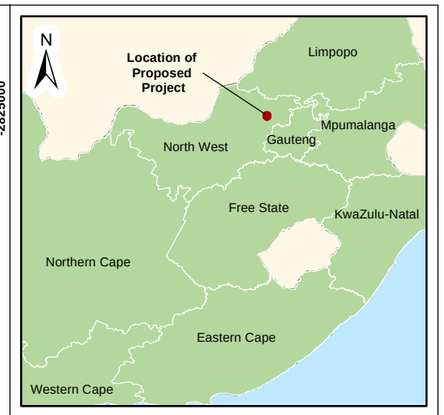
Serutube
Mafika
Setlhokwe
Kanana
Matalaneng
Freedom Park

Location of the Proposed Parking Area Expansion

Motlhabe 1187
Pelane 1210
Mafotlhelo 1242.1
Matshelapata
Kgapatswai 1194
Phetwane
Rankunyana
Radintsha
Chachalaza

R510
To Van Zylsrus
Slimes Dam
Shaft
Sewage Works
Conveyor Belt
WILDEBEESFONTEIN MINE No. 1 Shaft
Furrow
Hex River
Bospoort Dam

1153 1142 1120 1114 1100 1238 1186 1080 1096 1094 1106 1108 1109 △208 1117.6



Legend

- Towns / Villages
- Main Roads
- Power Line
- Railway Line
- Rivers
- Dams
- Impala Surface Use Area
- Proposed Parking Area Expansion

0 0,5 1 Kilometers

Scale: 1:30 000 @ A3

Projection:Transverse Mercator
Datum: Hartebeeshoek, Lo 27

Impala Platinum Limited

Figure 1

Local Setting

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2. METHODOLOGY

A description of the methods used to compile this SSVR is provided in Table 1 below.

Table 1: Data type and source for the site verification assessment

Methodology	Data type	Year	Source/Reference
Desktop Analysis	Local municipality information, Census data and statistics	2011 - present	Statistics South Africa, Bojanala Platinum District Municipality, Rustenburg Local Municipality
	Existing authorisations, studies and assessments undertaken for the study area and surrounds	2007 - present	Impala
Site inspection	Site photographs	2021	SLR

3. DESKTOP ANALYSIS

3.1 NORTH WEST PROVINCE

Impala's Shaft 16 Complex is located within the North West province. The socio-economic environment of the province can be summarised as follows:

- the North West province has a population of approximately 4 million residents in 2019;
- it was estimated that the unemployment rate of the province in 2016 was 32% (this is slightly higher than the current unemployment rate of 29% in South Africa);
- the North West province is the fourth largest provincial contributor to the gross domestic product (GDP) of South Africa. The province has a GDP of R55 320 per capita and produces 6.7% of South Africa's GDP. Mining, agriculture and manufacturing contribute to the largest portion of provincial output. Tourism is the fourth most important economic sector in the province;
- nine percent (9%) of the population has tertiary education. Furthermore, only 67% of the total population in the province have secondary education; and
- The district had a total number of 697 419 households with piped water inside the dwelling and piped water inside the yard. This constitutes 63% of the total households. The number of households using electricity in the province have been on an increase since 1996. The number of households with electricity connections increased from 57.3% in 1996 to 87.7% in 2016.

3.2 BOJANALA PLATINUM DISTRICT AND RUSTENBURG LOCAL MUNICIPALITIES

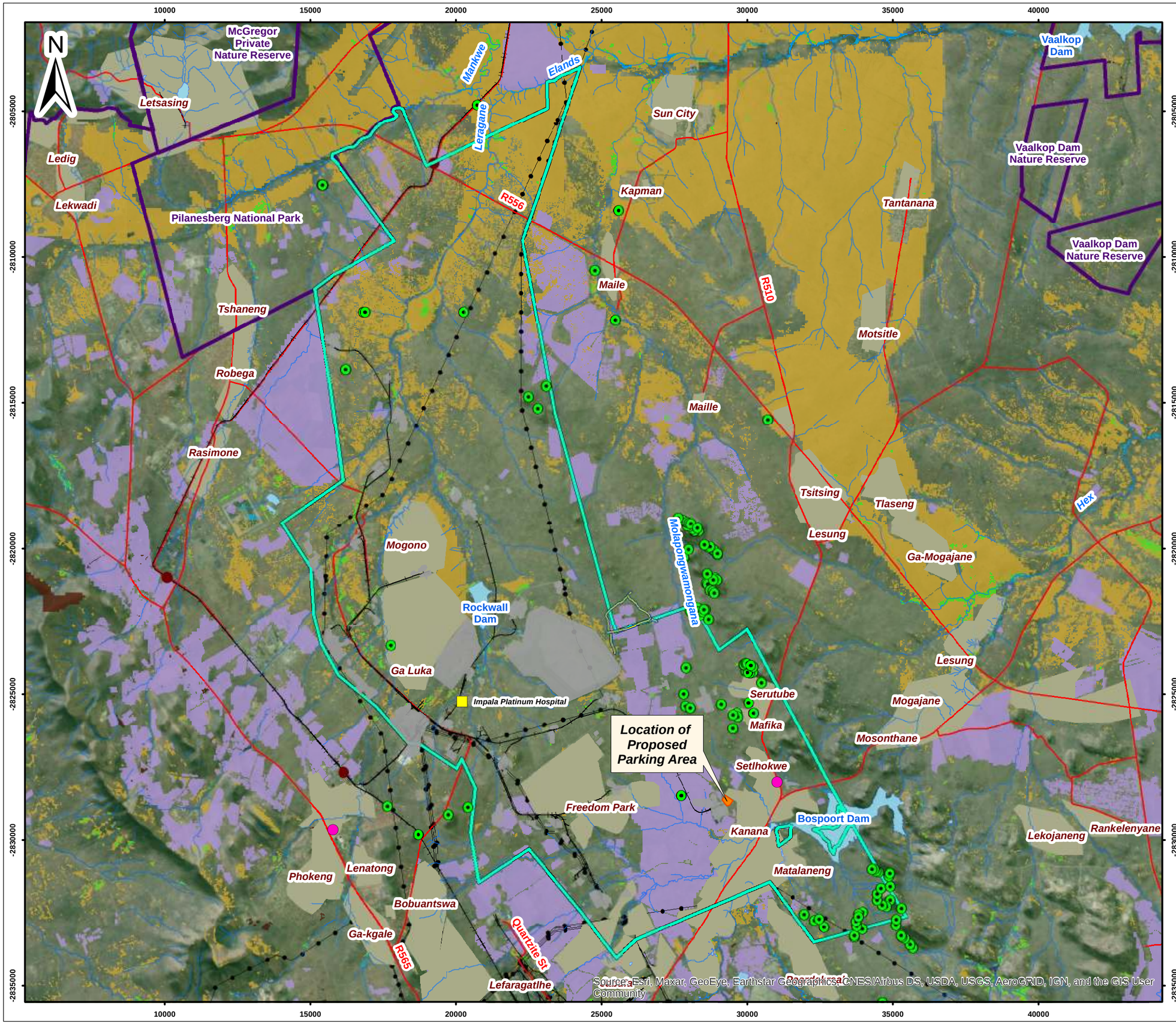
Impala's Shaft 16 Complex is located within the Bojanala Platinum District Municipality and the Rustenburg Local Municipality. The socio-economic environment of the district and local municipalities can be summarised as follows:

- the population of district is estimated to be 1 670 000. This is approximately 44.1% of the total population of the North-West Province. The local municipality is the largest municipality within the district, with a population concentration of approximately 37% of the total population. The total number of households within district increased at an average annual rate of 3.63% from 2006 to 2016, which is higher than the annual increase of 1.97% in the number of households in South Africa;
- in 2016, the mining sector was the largest within the district accounting for R 63.5 billion or 51.1% of the total Gross Value Added (GVA) in the district municipality's economy. The sector that contributes the second most to the GVA of the district is the community services sector at 12.7%, followed by the finance sector with 10.4%. The sector that contributes the least to the economy of district is the agriculture sector with a contribution of 1.06% of the total GVA;
- the unemployment rate within the district was estimated to be 23.2% in 2014;
- areas within the district can be classified as rural with very low densities that make the provision of basic services very difficult and expensive;
- it is estimated that the district has the following dwelling types: very formal- 19.24%, formal – 50.05%, informal- 29.45%, traditional- 0.58% and other dwelling types- 0.67%. The local municipality has high proportional and actual number of households residing in informal dwellings in the district as compared to the other local municipality;
- it is estimated that approximately 452 000 of the households in the district have electricity for lighting and other purposes. The local municipality accounts for 40.9% of the households with electricity for lighting and other purposes;
- the district has a total number of 275 000 households with piped water inside the dwelling and piped water inside the yard. The local municipality accounts for 29.1% of households with piped water; and
- of the five local municipalities in the district, the local municipality provides the greatest percentage of waste collection and cleaning services to their communities. There are currently 12 operational landfills within the district (waste sites) identified, 4 sites within the local municipality.

3.3 MINING RIGHT AREA

Impala's Mining Right (MR) is the area that Impala may utilise for mining activities. The MR area extends over a number of farms and portions and is made up of surface use lease agreement with the Royal Bafokeng Nation/Royal Bafokeng Administration. Impala does not own any portion of land in the MR area.

The land use within the MR area is a mixture of agriculture, community/suburban, mining activities and wilderness. Regional and local land use maps are provided in Figure 2 and Figure 3, respectively. Agricultural activities undertaken within the MR area include firewood harvesting, crop harvesting (sunflowers and maize), and grazing for livestock. Numerous communities are located within the MR area, including Kanana; Freedom Park; Mereting; Lefaragatlha; Bobuampja; Kgale; Pudunong; Masosobane; Lemenong; and Ga-Luka.



Legend

- Impala Surface Use Area
- Roads
- Power Line
- Railway Line
- Rivers
- Dams
- Residential Areas
- Mining Related Interests or Operations
- Protected Areas / Nature Reserves
- Wetlands
- Plantations
- Improved Veld
- Degraded
- Cultivated
- Places of Worship
- Heritage Resources
- Impala Platinum Hospital
- Historically Man Made Furrows

0 2 4 Kilometers

Scale: 1:250 000 @ A3

Projection:Transverse Mercator
Datum: Hartebeeshoek, Lo 23

Impala Platinum Limited

Figure 2

Regional Land Use

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-2830000

Serutube

Impala No. 10 Shaft

Impala No. 17 Shaft

Mafika

Setlhokwe

Location of Proposed Parking Area

Impala No. 9 Shaft

Freedom Park

Impala No.16 Shaft

Kanana

Bospoort Dam

R510

Matalaneng

Hex River

Impala No. 1 Shaft

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N

Legend

- Impala Surface Use Area
- Proposed Parking Area Expansion
- Towns / Villages
- Main Roads
- Power Line
- Railway Line
- Rivers
- Dams
- Residential Areas
- Mining Related Interests of Operations
- Wetlands
- Improved Veld
- Degraded
- Cultivated
- Heritage Resources
- Places of Worship

0 0,5 1 Kilometers

Scale: 1:30 000 @ A3

Projection:Transverse Mercator
Datum: Hartebeeshoek, Lo 27

Impala Platinum Limited

Figure 3

Local Land Use

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2021/07/19

3.4 PROJECT SITE

The proposed project area is located adjacent to and to the north-east of Impala's Shaft 16 Complex. The area is located approximately 1 105 m above sea level and is a relatively flat area in terms of topography. The project area does not fall within any Critical Biodiversity Areas or Ecological Support Areas. There are no watercourses or wetlands within the proposed project area or within 500 m of the area. No National Freshwater Ecosystem Priority Areas. An electrical servitude comprising an overhead powerline runs through the proposed project area. A stormwater drainage culvert is adjacent to the site. The proposed project area is bordered by existing access roads to the north and west that are utilised to gain access to Impala's Shaft 16 Complex. Historical imagery has indicated that the project area has not been utilised for agricultural activities within the last 15-20 years.

The Kanana residential area is located 100 m to the east of the site. This residential area is comprised of formal and informal housing in a ribbon development along the R510. The majority of the houses are on the other side of one of the access roads from the proposed site.

4. SITE VERIFICATION

SLR undertook a site visit to the proposed project area on 23 April 2021. The aim of the site visit was to confirm the environmental sensitivity of the socio-economic component.

Land use is an important factor when determining the socio-economic sensitivity of an area. In this regard, the proposed project area is characterised as fairly flat in terms of topography, vegetated by low grasses (see Figure 4 and Figure 5). The project site is currently vacant and is not utilised for any agricultural activities. An overhead transmission line traverses the area (see Figure 4 and Figure 5), and a stormwater culvert is located adjacent to the site (see Figure 6). The site is adjacent to Impala's Shaft 16 Complex (see Figure 7) and positioned alongside the existing parking area. The Kanana residential area located 100 m to the east is identified as the primary socio-economic receptor due to its close proximity to the proposed project.

Figure 4: View of the proposed project area depicting grasses and the overhead powerline

Figure 5: Additional view of the proposed project area depicting grasses and the overhead powerline

Figure 6: View of the stormwater culvert adjacent to the proposed project area

Figure 7: View of proposed project area (foreground) with Impala's Shaft 16 Complex in the background (red rectangle)

The proposed project is not considered to have a significant socio-economic impact on the Kanana community or the communities within the greater area given the following details:

- the proposed project may contribute to an increase in ambient air pollution from the creation of dust for the duration of the construction phase, however, this will be limited in time (12-month construction phase) and extent;
- the proposed project area is currently vacant and is not used nor planned to be utilised by the local community for non-mining related activities for the duration of the life of mine; and
- the proposed project will entail the provision of limited job and procurement opportunities which may contribute to inward migration; however, these opportunities will be limited (maximum of 45 individuals) compared to the number of people employed at the mine.

5. CONCLUSION

The proposed project area is relatively flat in topography, comprises low grasses, and is currently vacant except for the traversing overhead powerline. The area is adjacent to two access roads and Impala's Shaft 16 Complex. The nearest socio-economic receptor is the community of Kanana, located 100 to the east. Given that the proposed project entails the expansion of the parking area at the Shaft 16 Complex on land that is currently vacant; and the duration of the construction phase will be limited in time and extent, providing limited procurement and job opportunities, the outcome of this SSVR confirms that the sensitivity for the socio-economic component of the project area is **LOW**. This is in line with the environmental sensitivity identified in the DFFE's screening tool report.