

NOTIFICATION OF INTENT TO DEVELOP

DRM LP30/5/1/2/2/10067MR **DEA** LIM/EIA/0000538/2013
Reference: **Reference:**

Digby Wells PLA1677
Reference:

HERITAGE STATEMENT FOR THE PLATREEF PLATINUM PROJECT ON THE FARMS TURFSPRUIT 241 KR, MACALACASKOP 243 KR AND RIETFONTEIN 2 KS IN MOKOPANE, LIMPOPO PROVINCE

1 INTRODUCTION

Digby Wells Environmental (hereafter Digby Wells) has been requested by Platreef Resources (Pty) Ltd to submit a Heritage Statement for the following:

- Platreef Platinum Project

1.1 Project Location

Name of properties	Platreef Platinum Project
Street address or location (e.g.: Off R44)	Off the N11 in Mokopane
Erf or farm number/s	Turfspruit 241 KR Macalacaskop 243 KR Rietfontein 2 KS
Coordinates of approximate centre of project area	Latitude: -24.134072
	Longitude: 28.962264
Town or District	Mokopane
Responsible Municipality	Mogalakwena Local Municipality
Extent of property	10 685.71 hectares
Maximum extent of proposed development	Not yet supplied
Current use	Residential, farming
Predominant land uses of surrounding properties	Residential, farming

1.2 Registered Owner of Properties

Name	Property	Notified
Republic of South Africa, Department of Rural Development and Land Reform	Turfspruit 241 KR Macalacaskop 243 KR Rietfontein 2 KS	Yes, via registered mail on 14 December 2012

2 PROJECT DETAILS

Platreef is the holder of a prospecting right registered in the Mineral and Petroleum Titles Registration Office under MPT 55/2006 PRC, prospecting right LP30/5/111/2/872PR over the farms Macalacaskop 243 KR and Turfspruit 241 KR.

An underground mining method will be employed in the proposed Platreef Platinum Project. Primary access to the underground mine will be via production and service shaft (Shaft No. 1). This shaft will have a diameter of 7.25 m and a depths of 1 250 m. Three additional ventilation shafts will also be developed – Shaft No. 2, 3 and 4.

Access from the production shaft to the ore zones will be provided by four main access levels developed at below surface depths of 650 m, 750 m, 900 m and 1 100 m. Stope access will be provided by ramps and additional mining sublevels located near the individual ore zones.

Ore will be removed from stopes using a diesel-powered Load-Haul-Dumper (LHDs) and dumped in an orepass located nearby. It will be later loaded from the orepasses into trucks and hauled to ore bins located near the production shaft. It will be fed from the ore bins to a crusher located below the 1 100 Level. The crusher discharges the ore into a fine ore bin. The ore will then be fed onto a conveyor located on the 1 200 Level that transfers it to a skip loading station at the Shaft No 1.

The current mine plan assumes that the deposit will be mined using the sublevel blast hole stoping method. The ore zones are divided into individual stopes. Access drifts are driven through the ore zone at the top and bottom of each stope from the mining sublevels. At the bottom of the stope, a number of drawpoints are mined and equipped to extract the ore. The ore is drilled and blasted from the access drifts and the ore is removed from the stope using a diesel-powered LHD and dumped in an orepass located nearby.

2.1 NHRA Section 38 Triggers

The following aspects of Section 38 of the NHRA may be triggered by the proposed Project.

		NHRA Section 38 (1) Activities / Triggers	Summary description (E.g. 500 m conveyor belt, open cast pit, etc.)
<input checked="" type="checkbox"/>	a	Any linear development or barrier >300 m	Haul roads, conveyor belt, powerlines
<input type="checkbox"/>	b	Any bridge or similar structure >50 m	
<input type="checkbox"/>	c	Any development or activity that will change the character of a site:	
<input checked="" type="checkbox"/>	i	≥5 000 m ² in extent	Storage facilities, offices, smelting plant, tailings dam
<input checked="" type="checkbox"/>	ii	Involving ≥3 existing erven/subdivisions	Three farms will to be affected: Turfspruit 241 KR; Macalacaskop 243 KR; and Rietfontein 2 KS
<input type="checkbox"/>	iii	Involving ≥3 or more erven/divisions consolidated within past 5 years	
<input checked="" type="checkbox"/>	d	Rezoning of a site ≥10 000m ² in extent.	The site is approximately 10 685.71 ha in extent and currently zoned for agriculture. Therefore, subdivision of land or rezoning may be required.
<input checked="" type="checkbox"/>	e	Other triggers, e.g.: in terms of other legislation, (i.e.: National Environment Management Act, etc.)	MPRDA and NEMA

2.2 Activities

The following activities will take place during the lifespan of the proposed Project.

Government Notice Activity	NHRA Trigger	Description
GN R544-9	38(1)(a)	Construction of pipelines for the transportation of sewage, bulk water supply and stormwater will be longer than 1 km.
GN R544-12	38(1)(c)(i)	Infrastructure for offstream storage of water, including a tailings storage facility will be constructed.
GN R544-13	38(1)(c)(i)	Infrastructure for the storage and/or handling of dangerous goods, including petroleum, explosives and oil may be constructed.
GN R544-22	38(1)(a)	Construction of internal haul roads in rural area where the reserve will be wider than 13.5 meters. Where there are no reserves, the road will be wider than 8 meters.
GN R545-5	38(1)(c)(i)	A sewage treatment plant will be constructed for the treatment of sewage, in addition to a smelter plant for which an air emissions license will be required.
GN R545-15	38(1)(c)(i)	Undeveloped land in excess of 20 hectares or more (combined) will be altered for mining infrastructure construction and operation.
GN R545-19	38(1)(c)(i)	Storm water management, tailings storage facilities and pollution control dams will be constructed of which the highest part of the dam wall may be higher than 5 meters, and the dams, combined, will be larger than 10 hectares.
GN R545-26	38(1)(c)(i)	The construction of a smelter plant anticipated. The emissions from this plant will require an air emissions license to be applied for.
GN R 546-2	38(1)(c)(i)	The construction of bulk water reservoirs with a capacity of more than 250 cubic meters will be constructed outside an urban area within 5 km of a protected area (Witfing Nature Reserve).



Government Notice Activity	NHRA Trigger	Description
GN R546-4	38(1)(a)	Roads wider than 4 meters with a reserve less than 13.5 meters will be constructed outside an urban area within 5 km of a protected area (Witfingher Nature Reserve).
GN R546-9	38(1)(a)	The construction of above ground conveyors will take place outside an urban area.
GN R546-10	38(1)(c)(i)	The construction of facilities for the storage and handling of dangerous goods, including petroleum, explosive and oil may be constructed, with a combined capacity of more than 30 but less than 80 cubic meters, outside an urban area.
GN R546-13	38(1)(c)(i)	To accommodate the construction of surface infrastructure, internal roads and waste storage facilities, clearance of more than 1 hectare of which 75% or more may be indigenous vegetation.
GN R546-16	38(1)(c)(i)	The construction of infrastructure and buildings covering an area more than 10 square meters in size will be constructed outside an urban area, possibly within 32 meters of a water course, within 5 km of a protected area (Witfingher Nature Reserve).
GN R546-19	38(1)(a)	The widening of existing roads by more than 4 meters, or the lengthening of such roads by more than 1 km may be done, outside an urban area, within 5 km of a protected area (Witfingher Nature Reserve).
GN R546-23	38(1)(c)(i)	The expansion of existing infrastructure for the storage and/or handling of dangerous goods, operated during prospecting, may be done where such an expansion will be more than 30 but less than 80 cubic meters. Such expansions will be outside an urban area, within 5 km of a protected area (Witfingher Nature Reserve).

2.3 Additional Impact Assessment Process

The following impact assessment processes are currently being undertaken for the proposed Project.

Legislation, i.e. NEMA, MPRDA, etc.	MPRDA and NEMA
Consenting Authority that has/will receive information	DMR and DEA
Present phase of process at Authority, e.g. Draft Scoping Report	Draft Scoping Report

3 IDENTIFIED/KNOWN HERITAGE RESOURCES AND POTENTIAL IMPACTS

The following categories of heritage resources as defined in Section 3 of the NHRA are known to occur within the proposed project area.

<input type="checkbox"/>	3(2)(a)	Places, buildings, structures and equipment of cultural significance <i>Description of resource:</i> <i>Potential impact:</i>
<input type="checkbox"/>	3(2)(b)	Places to which oral traditions are attached or which are associated with living heritage <i>Description of resource:</i> <i>Potential impact:</i>
<input type="checkbox"/>	3(2)(c)	Historical settlements and townscapes <i>Description of resource:</i> Historical settlements are located within the Platreef Project Area. <i>Potential impact:</i> Possible destruction and/or damage to known and unknown historical structures and foundations through ground clearance and construction.
<input type="checkbox"/>	3(2)(d)	Landscapes and natural features of cultural significance <i>Description of resource:</i> <i>Potential impact:</i>
<input type="checkbox"/>	3(2)(e)	Geological resources of scientific or cultural importance <i>Description of resource:</i> <i>Potential impact:</i>
<input checked="" type="checkbox"/>	3(2)(f)	Archaeology and/or palaeontology (Including archaeological sites and material, fossils, rock art, battlefields & wrecks) <i>Description of resource:</i> Stone Age lithics and Iron Age ceramics and Iron Age stone-walled settlements. <i>Potential impact:</i> Possible destruction and/or alteration of subsurface archaeological resources and unknown resources through ground clearance and construction.



<input checked="" type="checkbox"/>	3(2)(g)	Graves and burial grounds (eg: ancestral graves, graves of victims of conflict, historical graves & cemeteries)
		<i>Description of resource:</i> Graves present within the project area
		<i>Potential impact:</i> Possible destruction and/or damage to known and unknown graves on the properties through ground clearance and construction.
<input type="checkbox"/>	3(2)(a)	Other human remains
		<i>Description of resource:</i>
<input type="checkbox"/>	3(2)(h)	Sites of significance relating to the history of slavery in South Africa
		<i>Description of resource:</i>
<input type="checkbox"/>	3(2)(i)	Movable objects
		<i>Description of resource:</i>
		<i>Potential impact:</i>

3.1 Illustrative Material

Plan 2 on Page 9 illustrates the regional setting of the Platreef Project Area. The current mine plans and identified heritage resources are illustrated in Plan 5 on Page 10.

For additional plans, please refer to the attached Heritage Statement.

4 RECOMMENDATION

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 checked="" type="checkbox"/>	Archaeology	<input type="checkbox"/>	Architecture
<input type="checkbox"/>	Built Environment	<input checked="" type="checkbox"/>	Burial Grounds and Graves
<input checked="" type="checkbox"/>	Palaeontology	<input checked="" type="checkbox"/>	Public Participation
<input type="checkbox"/>	Townscapes	<input checked="" type="checkbox"/>	Visual Impact
<input type="checkbox"/>	Other:		
<p>Recommendation made by: Digby Wells Environmental</p> <p>Name: Shahzaadee Karodia</p> <p>Capacity: Archaeology Consultant</p>			

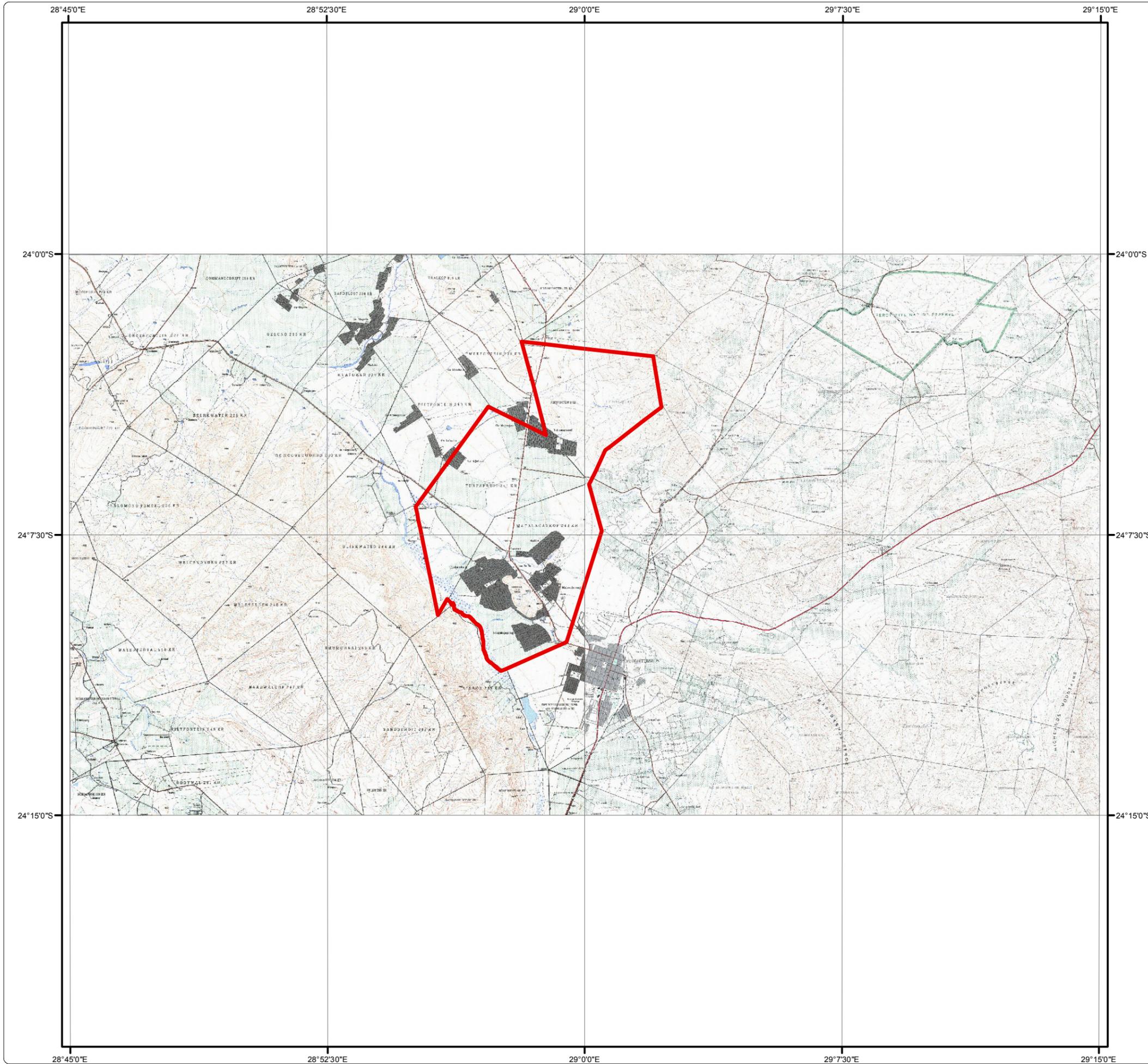
Platreef Resources (Pty) Ltd

Regional Setting

1:50 000

Legend

 Project Area



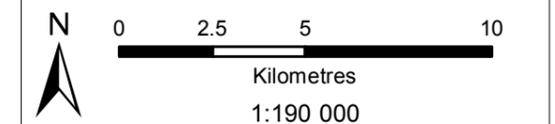
2428BB Tinmyne
2429AA Mokopane



DIGBY WELLS
ENVIRONMENTAL

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Datum: Hartebeesthoek 1994 Revision Number: 1
Central Meridian: 29°E Date: 27/05/2013

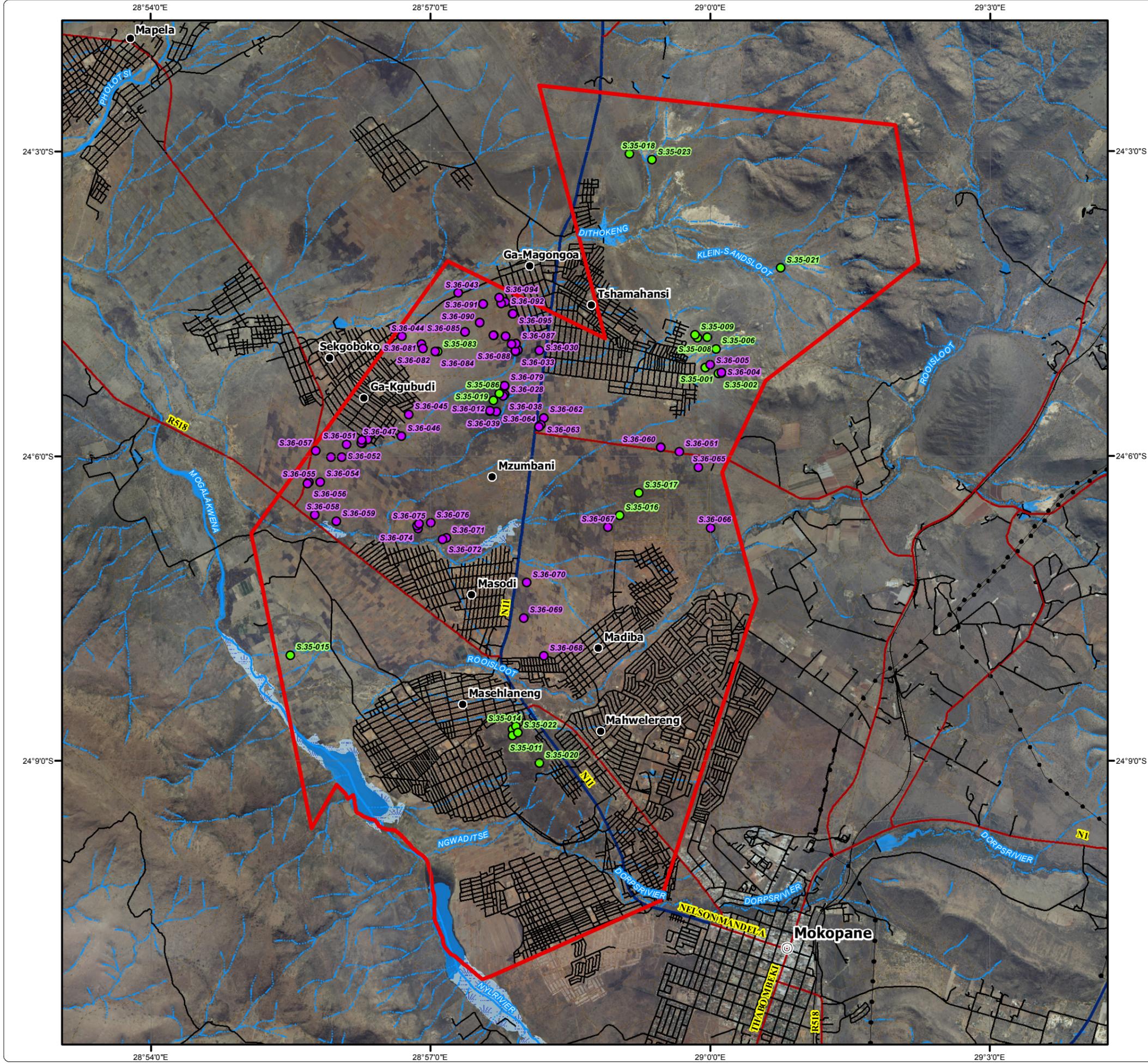


Platreef Resources (Pty) Ltd

Heritage Points

Legend

- Heritage Points**
- S.35 Archaeological / Paleo Sites
 - S.36 Burial Grounds & Graves
- Project Area
- Power Line
 - Arterial / National Route
 - Main Road
 - Minor Road
 - Track
 - +— Railway Line
 - Dam Wall
 - Non-Perennial Stream
 - Perennial Stream
 - Dam / Lake
 - Non-Perennial Pan / Stream
 - Perennial Pan
 - Wetland



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Projection: Transverse Mercator Ref #: scc.PLA1677.201305.350
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