

EIA PROCESS AND WATER USE LICENSE APPLICATION FOR ALLUVIAL DIAMOND PROSPECTING RIGHT APPLICATIONS WITH BULK SAMPLING BY SAMARA MINING (PTY) LTD ON THE LEFT BANK OF THE ORANGE RIVER, RICHTERSVELD, NORTHERN CAPE PROVINCE, SOUTH AFRICA

DMR REF. NCS 30/5/1/1/2/12664 PR, 12663 PR

1st ROUND OF PUBLIC ENGAGEMENTS: SCOPING PHASE

FOCUS GROUP MEETING WITH

LOCAL, DISTRICT AND PROVINCIAL ENVIRONMENTAL AUTHORITY

Meeting called by Naledzi Environmental Consultants (Pty) Ltd

Facilitator and Notetaker: Marissa Botha

Date: 8 December 2020

Time: 14:00

Location: Zoom Meeting (Meeting ID: 821 7373 5959 Passcode: 015120)

Participants: Please refer to Annexure A for the Zoom Meeting Participants List

Name & Surname	Position	Abbreviation		
Naledzi Environmental Consultants (NEC)				
Marissa Botha	Marissa Botha EAP and Public Participation Programme MB			
Samara Mining (Pty)) Ltd (Samara)			
Dr Anthony Dywili	Director	AD		
NDI Geological and	Consulting Services (Pty) Ltd (NDI)			
Ndi Mofokeng	Geologist and Project Manager	NM		
Bridget Tshioma	Geologist	BT		
Tina van der Merwe	'To the T Drafts' GIS Mapping Specialist	TVDM		
Other	Other			
Sydney Adams	Richtersveld Local Municipality - Municipal Manager	SA		
Ivan Cloete	Richtersveld Local Municipality – Infrastructure	IC		
	Manager			
Willem Links	Richtersveld Local Municipality Ward 1 Councillor	WL		
	and Local Economic Development (LED) Chairperson			
Jannie Loubser	Namakwa District Municipality, Economic	JL		
	Development and Tourism			
Shaun Abrahams	Namakwa District Municipality – Project Manager	SA		
Donovan Matjiet	Honey and Associates Incorporated;	DM		
	Richtersveld CPA Administrator			
Regrets				
 Anna Bock – Ward Councillor Ward (Sanddrift), Richtersveld Local Municipality 				

1. AGENDA ITEMS

No	Item	Presenter
1.1	Welcome and Introductions	Marissa Botha (NEC)
1.2	Application Legislative Requirements, Details and Location	Marissa Botha (NEC)
1.3	Project background	Dr Dywili (Samara)
1.4	EIA and Public Participation Process	Marissa Botha (NEC)
1.5	Potential Impacts and required specialist investigations	Marissa Botha (NEC)
1.6	Water Use License Application	Marissa Botha (NEC)
1.7	Discussion session	All
1.8	Way Forward, Closure	Marissa Botha (NEC)

The full PowerPoint presentation is attached as Annexure B.

2. KEY ISSUES

• The applications by Samara Mining (Pty) Ltd potentially overlap the Lower Orange River Diamonds (Pty) Ltd Mining Right Areas.

3. ACTION ITEMS

Action Item	Assigned	Completed
The recording of the	Marissa	2021/01/06
meeting must be	Botha,	The recording has been made available on a One Drive folder for
available to	CEO	download by participants. Please refer to the below link.
participants. (Jannie		https://ldrv.ms/u/s!Aphfm3X6bo0Gj3jcm3s4TH4ZE9Ar?e=aILbEn
Loubser, Namakwa		
District)		
Verify whether the	Marissa	A Spatial Query has been lodged with the DMRE on 3 December
Samara applications	Botha,	2020. We are awaiting for written verification from the DMRE.
overlap with the	NEC	Also please see attached the Key Plan showing the application areas
existing LOR		in relation to existing mining right areas under Annexure D.
Mining Right area.		
(Shaun Abrahams,		
Namakwa District)		

4. MEETING MINUTES

No	Agenda Item		
1.1	Welcome and introductions	Presenter	Marissa Botha (NEC)
1.1.1	Welcome and introductions by Samara, NDI, 1	NEC and partic	eipants.
1.1.2	Samara Mining (Pty) Ltd has applied to the		
	Energy (DMRE) for two alluvial diamond prospecting right applications on the left		
	bank of the Orange River close to Sendelingsdrift in the Richtersveld within the		
	Namakwa District of the Northern Cape Province of South Africa.		
1.1.3	NDI Geological and Consulting Services (Pty) Ltd has been appointed as the consulting		
	geologist and project manager for the applications.		
1.1.4	NEC is the independent environmental asses	sment practition	oner (EAP) to conduct the
	statutory Environmental Impact Assessment	(EIA) and Pu	iblic Participation Process
	(PPP) for the applications. This meeting forms	part of the EL	A Process PPP.

1.1.5	The agenda and purpose of the meeting were confirmed and adopted.		
1.1.6	Opportunity for a discussion session and questions of clarity exists after the		
	presentation.		
1.2	Application Legislative Requirements, Presenter Marissa Botha (NEC)		
	Details and Location		
1.2.1	Prospecting Right applications submitted in terms of Section 16 and 20 of the MPRDA		
	require an application for environmental authorisation in terms of the NEMA EIA		
	Regulations of 2014 (GNR 326) and its associated Listing Notices (GNR 327, 325,		
	324) as published under Section 24 (5) of the NEMA. The competent authority is the		
1.2.2	Department of Mineral Resources and Energy (DMRE). The applications are subject to a full EIA Process and PPP to be conducted by an		
1.2.2	independent consulting company (NEC).		
1.2.3	NDI, on behalf of Samara, has submitted two applications for alluvial diamond		
1.2.5	prospecting rights including the applications for environmental authorisation to the		
	DMRE: Springbok on 22 July 2020. The applications have been accepted on 15		
	September 2020 and include the following prospecting right application areas (PRAA):		
	o PRAA 1 – NCS 30/5/1/1/2/12664PR situated on the left bank of the Orange		
	River boundary to Portion of Remainder of Farm Richtersveld No. 11;		
	o PRAA 2 – NCS 30/5/1/1/2/12663 PR situated on the left bank of the Orange		
	River boundary to a Portion of the Remainder of Farm No. 18.		
1.2.4	Maps were presented to illustrate the location of the prospecting right application areas.		
	The applications are located on the left bank of the Lower Orange River near		
	Sendelingsdrift, approximately 30km north of Alexander Bay and fall within Wards 1		
	and 2 of the Richtersveld Local Municipality within the Namakwa District of the		
1.2.5	Northern Cape Province of South Africa. A prospecting works programme will be followed ever a five (5) year period and will		
1.2.3	A prospecting works programme will be followed over a five (5) year period and will comprise three phases, i.e.:		
	o Phase 1 - Non-invasive prospecting activities limited to desktop studies		
	o Phase 2 – Invasive bulk sampling to be conducted over a three (3) year period		
	followed by final rehabilitation.		
	o Phase 3 – Preparation of Feasibly Studies to determine if mining at the		
	application areas would be feasible.		
	Application has been made for environmental authorisations to be valid for eight (8)		
	years to provide for a possible renewal of the prospecting rights for another three (3) years.		
1.2.6	Samara will prospect for alluvial diamonds from the bed, banks, active channel and		
1.2.0	various terraces along the Orange River, below the 1: 100-year flood line of the river.		
1.2.7	Bulk sampling will focus on several prospecting pockets along the Orange River within		
	the greater PRAAs. The pockets are located near existing diamond mining operations		
	of the Lower Orange River Diamonds (Pty) Ltd and Oena Diamond mine. Satellite		
	maps were presented to illustrate the location of the proposed prospecting pockets.		
1.2.8	The prospecting method will include:		
	Excavation of ten (10) trenches per application area, each 100m x 25m x 4m		
	with each sample size being 10 000m ³ ;		
	• Minor temporary river diversions will be constructed to gain access to alluvial		
	material. A channel way will be excavated from the current river flow on the		
	dry side of the river bed. Open bottom and top entrances will be included to		
	allow flow through the new channel and include a cast bunt wall in the river to direct flow through the new channel.		
	 Load and haul samples to Rotary Pan Plant to process, screen, concentrate 		
	Loud and name samples to rotary I am I man to process, serect, concentrate		

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	samples and recover alluvial diamonds. No chemicals will be used in the
	process;
	• Water for the processing will be abstracted from the Orange River. A vacuum
	and filter system will remove the dirt, filter the water to drinkable standard and
	either release it back into the river or supply communities with water by pumping it into municipal reservoirs (open for discussion);
	Tailing and overburden will be backfilled (returned) into excavations,
	followed by topsoil.
	 Distributed areas will be appropriately rehabilitated according to environmental
	guidelines.
	 Associated prospecting infrastructure will include:
	Ablution facilities;
	Access roads
	 Diesel storage facilities
	o Fences
	 Office sites
	 Plant sites (Rotary Plant)
	o Contractor's camp
	 Vehicle parking areas.
1.2.9	The location of processing infrastructure must still be finalised based on the
	recommendations to be made by the specialist investigations which will follow in the
	EIA Phase.
1.3	EIA Process Presenter Marissa Botha (NEC)
1.3.1	The EIA is a systematic and consultative process that gathers information, identifies
	and evaluates the likely environmental and social impacts of an activity and formulates
	recommended mitigation measures on how to implement and operate the activity. The
	process informs the competent authority of the likely consequences of the activity
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the Orange River Mouth. Such impact, if regarded as significant, will be unacceptable. Bulk sampling will take place directly adjacent and within the delineated boundary of the Orange River. The river system is extremely ecologically important and sensitive. The proposed prospecting and bulk sampling activities pose a very significant risk to the system. River diversion and impedance to limit water ingress into excavations will result in reduced river flow volume in the Orange River, which will impact on the functioning of the Orange River gauging weirs. Bulk sampling have the potential to impact on the groundwater quantity by lower static water level and localised dewatering and groundwater contamination may take place due to petrochemical spills, increased sediment loads and possible e-coli contamination from on-site sanitation; The applications are located in the Gariep Centre of plant endemism in the endangered Lower Gariep Alluvial vegetation. Several protected tree and floral species may be located within the prospecting focus areas; • Prospecting has the potential to impact on the high eco-tourism aspect of the Richtersveld National Park. The bulk sampling activities could have a negative visual impact on the landscape character, sense of place and visual quality of the area. The area is naturally dark with no sources of night ime-light and the presence of campsites within the Richtersveld National Park in the proximity of the proposed prospecting pockets. PRAA 2 has a significant legal implication being located within the Richtersveld 1.3.5 National Park and Richtersveld Cultural Botanical Landscape protected area. According to the National Environmental Management Protected Areas Act (Act 57 of 2003) (NEMPAA), these areas are legally protected, and mining herein is prohibited. The list of potential impacts has been identified based on desktop investigations by the 1.3.6 EAP and appointed specialists and are still subject to further in-depth specialist field investigations to be conducted during the EIA Phase. 1.3.7 The identified specialist field investigations to be conducted during the EIA Phase include: Terrestrial Biodiversity Impact Assessment Freshwater Impact Assessment Heritage and Palaeontological Impact Assessment Hydrological and Hydrogeological Impact Assessment Visual Impact Assessment The specialist field investigations will allow NEC to determine the full scope of the potential impacts and to produce well-informed EIR and EMPR Reports for the application areas. The intention is to start conducting the field investigations from 6 – 12 January 2021, yet NEC and the specialists require access to prospecting right areas to conduct the investigations and consent to access areas is still being sought from existing mining operations. The prospecting focus areas are only accessible from existing mining operation gravel roads. 1.3.8 The Scoping Reports will be finalised to incorporate public submissions and will be submitted to the DMRE by 11 January 2021, based on an approved 50-day extension. It is anticipated that the DMRE will either accept/reject the Final Scoping Reports for the applications by February 2021 after which specialist field investigations will follow. 1.3.9 Samara is undertaking a high-end environmental impact assessment process to gauge

the likely environmental impacts of the project and formulate mitigations measures

	with the assistance of a multi-disciplined specialist team, to avoid and or manage the potentially significant impacts of the prospecting and bulk sampling activities along the Orange River. Samara intends to work in a phased manner by implementing concurrent
	rehabilitation to minimise potential impacts and risk of degradation of the affected focus areas.
1.4	Water Use License Application Presenter Marissa Botha (NEC)
1.4.1	The diamond prospecting and bulk sampling activities trigger several Section 21 water uses in terms of the National Water Act (Act 36 of 1998) (NWA). A Water Use License Application in terms of section 40 of the NWA will be submitted to the Department of Water and Sanitation: Orange Proto for Section 21 water uses including an application for the relaxation of conditions imposed by GN704 (GG-20119), due to workings within the river flood line.
1.4.2	Section 21 water uses to be applied for include:
	 S 21a - Abstracting water from the Orange River
	■ S21c – Diversion of the watercourse during the bulk sampling, impeding the
	natural flow
	 S21f – Clarified water from the filtration process at the prospecting works will be released back to the river
	• S21g – Stockpiles (topsoil, product/alluvial gravel, waste material) and
	temporary on-site disposal of waste
	■ S21i – Temporary altering of course of the watercourse, bulk sampling excavation and subsequent rehabilitation within the 1: 100-year flood line, the
	1
	release of clarified water back into the Orange River downstream of the
	workings
1.4	Public Participation Process (PPP) Presenter Marissa Botha (NEC)
1.4.1	Two rounds of public engagement are scheduled for the EIA Process. The first round seeks to announce the EIA Process and present the Draft Scoping Reports for 30 calendar days' public review and comment. The findings of the Scoping Reports are presented at public engagements to facilitate comments on the reports.
1.4.2	The draft Scoping Reports are currently available for public review and comment from
	13 November until 14 December 2020. Electronic copies of reports are available for
	download from the Naledzi website and hardcopies have been placed at the following
	public venues:
	 Sendelingsdrift SANPARKS offices
	 Sanddrift, Kuboes, Eksteenfontein and Lekkersing Public Libraries
	Sandarit, Radoos, Eksteenionem and Bekkersing I done Elotaries
	Stakeholders can submit their comments on the reports by completing the Comment Sheet available on the website and at public venues, writing a letter, sending an email or contact Naledzi on or before 14 December 2020.
1.4.3	The availability of the Draft Scoping Reports has been announced in the Gemsbok and
	Plattelander Newspapers on 13 November 2020 and by the placement of site notice
	posters in the project area. An emailed notification has been sent to the list of registered
	I&APs on the project database.
1.4.4	Virtual meetings have been scheduled for 8 and 9 December 2020 with key stakeholders and commenting authorities. Public Meetings with the affected
	communities were scheduled for 3-4 Dec 2020, but have been postponed until January
	2021 due to the covid-19 risk in the Richtersveld.
1.4.5	All the comments received during the first round of engagements will be recorded in
1.1.5	the Finalised Scoping Reports and submitted to the DMRE for decision making.
1.4.6	Attendees are allowed to ask questions to gain clarity and to comment on the project.
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1.5	Project Background	Presenter	Dr Anthony Dywili (Samara)
1.5.1	Samara has embarked on a high level of research and consultation with specialists, policy experts and environmentalists to ensure that the prospecting project contributes to local economic development whilst implementing a social and environmentally responsible prospecting method.		
1.5.2	Samara is also consulting at a national, provincial and local level to ensure that all policies are taken into consideration; particularly the prospecting methods intended to be used.		
1.5.3	Samara is very cautious of the agricultural, water and sanitation aspects of the application areas and project. Samara is busy planning a water filtration system to ensure that the process water from the bulk sampling and Rotary Pan Plant is filtered and cleaned to drinkable standard before being discharged back into the river. The process and method are still being refined. Samara is further also still busy refining the prospecting method in consultation with environmental specialists and specialists at the university level.		
1.5.4	The prospecting right applications aim to Richtersveld area. Samara has thus consulted National Development Plan (NDP) including Strategy and narrowed these down to the Loca the Richtersveld.	d outcome five the Provincial	ye (5) and nine (9) of the Growth and Development
	The proposed Samara Social Development Plan will ensure that the prospecting right activities are not just another mining project but will ensure that every key role player participates in the process and to ensure that all policies that protect the socio-economic environment are kept in place. The specialists from environmental, water and sanitation will form part of the implementation of the project to give guidance on how to keep the environment intact throughout prospecting activities.		
1.5.5	Local engagement and community participation are considered critical in the process of obtaining the prospecting right applications. Therefore Samara has consulted outcome five (5) of the NDP as it gives guidance on how operations of this nature must be implemented to ensure economic upliftment, creation of job opportunities, skills development and creation of opportunities for education and health.		
1.5.6	All the stakeholder input will sharpen Samara's concept to ensure that the implementation of the project if approved, becomes a milestone and innovation of mining. Samara's research shows that former/current mining projects have had significant impacts on the environment and river system by not being able to adhere to legislation and policies.		
1.5.7	Samara will not mine inside the river. The prospecting method is being refined for bulk sampling to be conducted as far away from the river as possible. The most innovative idea of the prospecting method is to clean the process water from the Rotary Plant to drinkable standard and possibly distributing the water to the communities.		
1.5.8	Attendees are allowed to ask questions to gain clarity and to comment on the project.		
1.6 1.6.1	Discussion Session (All) Shaun Abrahams	Response Marissa Bot	the (NEC)
1.0.1	(Namakwa District Municipality)	IVIAITISSA DO	ina (NEC)
1.6.1.1	I have previously, approximately three (3) months ago read through a Scoping Report completed for Lower Orange River Diamonds (Pty) Ltd (LOR), which also identified the same areas for mining as the	prospecting the existing Naledzi has	claims that the Samara right applications overlap LOR Mining Right area. submitted a spatial query DMRE requesting the

1.6.1.2 Does Samara have any plans to extend the prospecting rights to commercial mining right? Samara will first test the mining method at a prospecting scale after which the project may unfold in a small pilot mine to allow improvement on the mining method, diamond recovery process and to reduce any potential environmental risks. The method does not only refer to mining but also to the social-economic development that needs to be implemented as part of the project. The Social Development Plan addresses skills development and aims to ensure that the environment remains activities been undertaken in the Richtersveld area. The SDP will also ensure that the project contributes to the agricultural activities currently available in the area. It is thus emphasised that the project proposal is informed by a multi-disciplinary team to ensure that the method is tried and tested from an environmental and social point of view and to determine what the project socio-economic abilities will be before it can proceed to commercial mining. The main risk of these types of projects is contributing to the unemployment rate in the area. The main aim of the project model is to incorporate job creation, skills development. Samara's key focus is not only to obtain the prospecting right but to ensure that the project model can achieve the local economic development priorities for the area. Marissa Botha (NEC) Marissa Botha (NEC)		Samara prospecting focus areas at PRAA 1 and PRAA 2. Would that be a problem for the DMRE? Because according to the LOR Scoping Report they already have a mining license for those areas.	department to verify the claims. Naledzi is awaiting the DMRE's response in this regard to determine the way forward.
mining but also to the social-economic development that needs to be implemented as part of the project. The Social Development Plan addresses skills development and aims to ensure that the environment remains conducive for the current eco-tourism activities been undertaken in the Richtersveld area. The SDP will also ensure that the project contributes to the agricultural activities currently available in the area. It is thus emphasised that the project proposal is informed by a multi-disciplinary team to ensure that the method is tried and tested from an environmental and social point of view and to determine what the projects socio-economic abilities will be before it can proceed to commercial mining. The main risk of these types of projects is contributing to the unemployment rate in the area. The main aim of the project model is to incorporate job creation, skills development. Samara's key focus is not only to obtain the prospecting right but to ensure that the project model can achieve the local economic development priorities for the area. Marissa Botha (NEC) The community can submit their	1.6.1.2	prospecting rights to commercial mining	Samara will first test the mining method at a prospecting scale after which the project may unfold in a small pilot mine to allow improvement on the mining method, diamond recovery process and to reduce any potential environmental risks.
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(Richtersveld Local Municipality) 1.6.2.1 Since the community public meetings have The community can submit their	1.6.2	Ivan Cloete	obtain the prospecting right but to ensure that the project model can achieve the local economic development priorities for the area.
been postponed until January 2021, can the comments throughout the EIA Process.		(Richtersveld Local Municipality)	The community can submit their

public engagement process which will be communicated to the communities during the January 2021 meetings. The broader public engagement will allow Samara to engage other relevan stakeholders on the development in the area with regards to the Social Development Plan. The SDP engagement process is 90% planned, we just need to put a date to it. Samara will host a Summit where all stakeholders will be invited departments and community organisations to determine if the		on connectionity to submit their comments
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transparent as possible and allow stakeholders to provide their inputs and		project model is workable or not. The
stakeholders to provide their inputs and		
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Marissa Botha (NEC)		· · · · · · · · · · · · · · · · · · ·
		3
		development plan engagement to be
		conducted by Samara falls outside the EIA Process public engagement
process scope.		
1.7 Closure Presenter Marissa Botha (NEC)	.7 Closure	
1.7.1 The way forward was recapped. Naledzi will prepare the minutes of the meeting and		
make it available to participants via email. The issues raised at the meeting and written	make it available to participants via email.	The issues raised at the meeting and written
submissions made on the Draft Scoping Reports will be incorporated into		
consolidated Issues and Response Report and the Finalised Scoping Reports for submission to the DMRE.	consolidated Issues and Response Repor	and the Finalised Scoping Reports for
1.7.2 The Finalised Scoping Reports will be submitted to the DMRE Springbok no later than	submission to the DMRE.	
11 January 2021. The DMRE will have 43 days to accept or reject the Scoping Reports.	.7.2 The Finalised Scoping Reports will be subm	avs to accept or reject the Scoping Reports
1.7.3 Interested and Affected Parties will be notified of the DMRE's decision on the Scoping Reports.	.7.2 The Finalised Scoping Reports will be subm 11 January 2021. The DMRE will have 43 d	
1.7.4 Participants were thanked for their comments and the meeting was closed.	.7.2 The Finalised Scoping Reports will be subm 11 January 2021. The DMRE will have 43 d .7.3 Interested and Affected Parties will be notif	

Attachments:

Annexure A - Zoom Participants List

Annexure B - PowerPoint Presentation

Annexure C – Maps

Annexure D – Key Plan

Meeting ID: 82173 735 959

Topic: Focus Group Meeting - EIA & WULA - Samara Prospecting right Applications on the Orange River, Richtersveld, Northern Cape, South Africa

Date: 08 December 2020, 14:00

Participants:

Name (Original Name), User Email, Join Time, Leave Time, Duration (Minutes)

Bridget Tshioma, btshioma@gmail.com, 12/08/2020 03:09:40 PM, 12/08/2020 03:12:29 PM, 3

Marissa Botha Naledzi (Desmond Musetsho),dmusetsho@naledzi.co.za,12/08/2020 12:49:46 PM,12/08/2020 03:33:04 PM,164

Sarel,,12/08/2020 01:40:51 PM,12/08/2020 01:49:45 PM,9

Sarel,,12/08/2020 01:49:45 PM,12/08/2020 02:40:15 PM,51

ivan,,12/08/2020 01:58:17 PM,12/08/2020 01:58:31 PM,1

ivan,,12/08/2020 01:58:31 PM,12/08/2020 03:31:56 PM,94

Sydney Adams, sydney@richtersveld.gov.za, 12/08/2020 01:59:20 PM, 12/08/2020 01:59:33 PM, 1

Sydney Adams, sydney@richtersveld.gov.za,12/08/2020 01:59:34 PM,12/08/2020 03:08:57 PM,70

don,,12/08/2020 01:59:54 PM,12/08/2020 02:00:10 PM,1

don,,12/08/2020 02:00:11 PM,12/08/2020 02:51:24 PM,52

Ndi,,12/08/2020 02:00:27 PM,12/08/2020 02:02:02 PM,2

Ndi,,12/08/2020 02:02:03 PM,12/08/2020 03:32:01 PM,90

Namakwa District Municipality,council@namakwa-dm.gov.za,12/08/2020 02:04:13 PM,12/08/2020 02:04:27 PM,1

Namakwa District Municipality,council@namakwa-dm.gov.za,12/08/2020 02:04:28 PM,12/08/2020 03:33:50 PM,90

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Dr Dwyili,,12/08/2020 02:14:52 PM,12/08/2020 02:15:08 PM,1

Dr Dwyili,,12/08/2020 02:15:08 PM,12/08/2020 03:31:59 PM,77

Shaun Abrahams,,12/08/2020 02:15:57 PM,12/08/2020 02:16:08 PM,1

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Khuthadzo,,12/08/2020 03:16:18 PM,12/08/2020 03:25:00 PM,9

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Bridget Tshioma, btshioma@gmail.com, 12/08/2020 02:35:35 PM, 12/08/2020 02:36:26 PM, 1

Tina vd Merwe (Sarel),,12/08/2020 02:40:16 PM,12/08/2020 03:32:56 PM,53

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Bridget Tshioma, btshioma@gmail.com, 12/08/2020 02:58:48 PM, 12/08/2020 03:04:09 PM, 6



INTRODUCTIONS



APPLICANT - SAMARA MINING (PTY) LTD *Hereinafter Samara*



GEOLOGISTS & PROJECT MANAGER (AGENT TO SAMARA)



INDEPENDENT EAP TO FACILITATE EIA STUDY

Meeting Facilitator: Marissa Botha

PLEASE NOTE THIS SESSION IS BEING RECORDED

PURPOSE OF MEETING

- ☐ Provide legal background
- Explain the EIA Process and your rights as a Stakeholder
- ☐ Provide an **overview** of the **applications** and **location**
- Overview of the EIA Process and Public Participation Process being followed
- □ Potential **impacts on environment** and specialist **surveys** required
- ☐ Give stakeholders **opportunity to seek clarity**
- □ Solicit comments from stakeholders for consideration in the EIA Study
- □ Record comments in the Final Scoping Report for consideration by DMR

LEGISLATIVE REQUIREMENTS

- □ Prospecting with bulk sampling require a prospecting right application in terms of Section 16 and 20 of the Mineral and Petroleum Resources Development Act 2002 (Act 28/2002) [MPRDA]
- □ EIA Regulations of 2014 (GNR 326) and its associated listing notices 1 (GNR 327), notice 2 (GNR 325) and notice 3 (GNR 324) published under Section 24 (5) of NEMA specify regulated activities which require environmental authorisation.
 - □ Prospecting and bulk sampling are regulated activities in terms of GNR 327, 325, 324 and require environmental authorisation;
 - ☐ The applications are subject to **full Scoping and EIA Process**
- □Competent Authority Department of Mineral Resources
- □ Application requirements under Regulation 21-26 and 39-44 of GNR 326:
 - ☐ Application for Environmental Authorisation
 - ☐ Proof Public Participation Process
 - ☐ Scoping Report
 - ☐ Environmental Impact Report & Environmental Management Programme (EIR & EMPR)
 - ☐ Closure and Rehabilitation Plan
 - □ Calculate Financial provision to cater for required rehabilitation costs

APPLICATION OVERVIEW

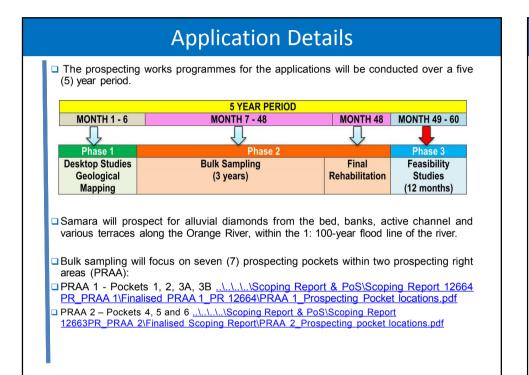
□ Samara has submitted two applications for alluvial diamond prospecting with bulk sampling to DMR: Springbok on 22 July 2020. DMRE accepted the applications on 15 September 2020.

Application DMR Ref	Property	Size
PRAA 1	Left bank of the Orange River boundary to Portion of	987.98 Ha
NCS 30/5/1/1/2/12664 PR	Remainder of Farm Richtersveld No. 11	
PRAA 2	Left bank of the Orange River boundary to Portion of	690 Ha
NCS 30/5/1/1/2/12663 PR	the Remainder of Farm No. 18	

- □ If granted, the prospecting rights will be valid for five (5) years.
- ☐ The request is for the environmental authorisation to be valid for eight (8) years should Samara request renewal for another three (3) years.

Location of Applications Areas

- □ Ward 1 & 2 of the Richtersveld Local Municipality , Namakwa District Municipality , Northern Cape Province, South Africa
- □ Left bank of the Lower Orange River near Sendelingsdrift, on the border between South Africa and Namibia, approximately 30km north east of Alexander Bay.
- □PRAA 1 12664 PR is approximately 250m west of Sanddrift
- □ ..\..\..\Scoping Report & PoS\Scoping Report 12664 PR_PRAA 1\Finalised PRAA 1_PR 12664\PRAA 1_Appendix 3_Location Map REGULATION 2(2) 12664.pdf
- □ PRAA 2 12663 PR is approximately 10km northeast of Sendlingdrift
- ..\..\..\Scoping Report & PoS\Scoping Report 12663PR_PRAA 2\Finalised Scoping Report\PRAA 2_Appendix 3_Location Map REGULATION 2(2)[1] 12663.pdf



Application Details

- □ Activities will start with site preparation (doze off vegetation, topsoil)
- ☐ Ten (10) trenches will be excavated per application area, each 100m x 25m x 4m with each sample size being 10 000m3.
- □ Bulk samples will be loaded and hauled to a Rotary Pan Plant to process, screen, concentrate samples and recover alluvial diamonds. No chemicals will be used in the process.
- Water for the processing will be abstracted from the Orange River. A vacuum and filter system will remove the dirt, filter the water to drinkable standard and either release it back into the river or supply communities with water by pumping it into municipal reservoirs (open for discussion);
- Minor temporary diversions of the river will be constructed to gain access to alluvial material. A channel way will be excavated from the current river flow on the dry side of the river bed. Open bottom and top entrances will be included to allow flow through new channel and include a cast bunt wall in the river to direct flow through the new channel.
- □ Tailing and overburden will be backfilled (returned) into excavations, followed by topsoil.
- Distributed areas will be appropriately rehabilitated according to environmental guidelines.
- □ PROSPECTING PERIOD: 5 years of which bulk sampling will require 3 years.

Prospecting Infrastructure

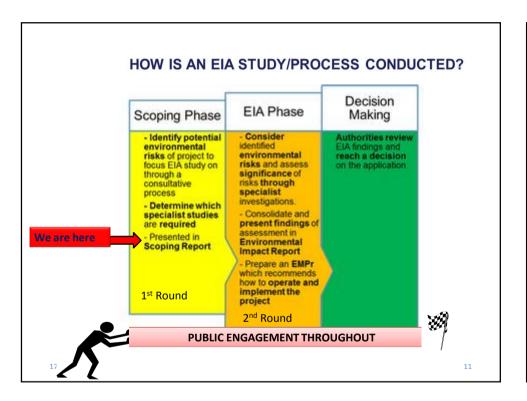
- INFRASTRUCTURE WILL INCLUDE:
 - ■Ablution facilities;
 - ■Access roads
 - □ Diesel storage facilities
 - ■Fences
 - Office sites
 - □ Plant sites (Rotary Plant)
 - □Contractor's camp
 - ■Vehicle parking areas.
- □The Rotary Pan Plant will be located on the Orange River embankment below the 1: 100 year flood line, above the active channel, not less than 50m from the river bed. Only machinery and associated pumps will be located within the riverbed. No slimes dam will be constructed as part of the processing infrastructure.
- □The location of processing infrastructure must still be finalised based on the recommendations to be made by the specialist investigations;

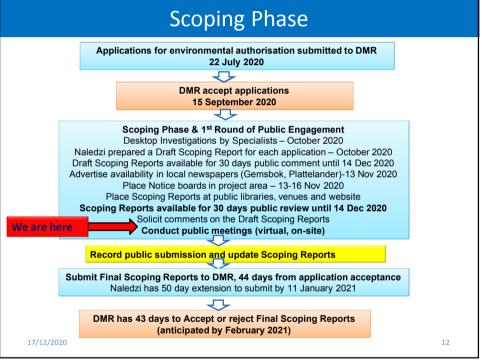
EIA Process

- □ Naledzi Environmental Consultants have been appointed as the independent EAP to conduct the EIA Process:
- □ The process identifies and evaluates <u>likely environmental and social impacts/risks</u> of an activity; and
- Formulates and recommend mitigation measures to minimise, manage and monitor such risks as informed by specialist investigations;
- □ EIA informs decision makers of the likely risks of an activity before a decision is made'
- □ EIA Process enables the public to take part in decision making process by providing inputs in the identification of potential risks related to the activity, commenting on environmental reports and participating in public engagement meetings. The public submission are included in environmental reports submitted for decision making.
- The EIA Process comprises two phases namely a Scoping and EIA Phase.
- Current Status of EIA process: Scoping Phase

Scoping Phase determines the major issues and impacts, that need to be considered and addressed in the EIA Phase through a consultative process. The screened issues and impacts are therefore informed by desktop investigations, specialist and public inputs.

□ The application areas are end-to-end therefore a consolidated EIA Process is being conducted for PRAA 1 and PRAA 2, yet separate reporting.





Draft Scoping Reports available for public review

- The PRAA 1 & 2 Draft Scoping Reports are currently available for 30 days public review and comment until 14 December 2020:
- Hard copies are available at the following public venues:
 - Sendelingsdrift SANPARKS Offices
 - ▼ Sanddrift, Kuboes, Eksteenfontein and Lekkersing Public Library
 - Naledzi website: http://www.naledzi.co.za/public-documents-naledzi.php
- The availability has been announced through adverts, notice boards and emailed notifications to I&APs;
- Virtual meetings have been scheduled on 8, 9 December 2020 with key stakeholders and authorities on the project
- Public Meetings with the affected communities were scheduled for 3-4 Dec 2020, but have been postponed until January 2021 due to the covid-19 risk in the Richtersveld:
- Request local municipality to assist to arrange upcoming public meetings, so that the meetings are safe for community members and well announed.

SUMMARY OF POTENTIAL SCREENED IMPACTS, ISSUES

- □ PRAA 2 and pockets 4, 5 and 6 are located within a protected area (Richtersveld National Park, Richtersveld Cultural Botanical Landscape);
- □PRAA 2 is located in an important fish corridor;
- □PRAA 1 & 2 are 30km upstream of the Orange River Mouth Ramsar Site sedimentation from bulk sampling have the potential to affect the Orange River Mouth. Such impact, if regarded as significant, will be unacceptable.
- □The bulk sampling activities will take place directly adjacent and within the delineated boundary of the Orange River and the potential impact on the river is significant.
- □Water diversion and impedance to limit ingress of water to excavations would result in reduced river flow volume in the Orange River, which will impact on the functioning of the Orange River gauging weirs and affect their accuracy. Sedimentation and erosion control will be vital at focus areas;
- □ Bulk sampling activities have the potential to impact on the groundwater quantity by lower static water level and localised dewatering;
- ☐ Groundwater contamination may take place due to petro-chemical spills, increased sediment loads and possible e-coli contamination from on-site sanitation
- □ PRAA 1 & 2 is located in the Gariep Centre of plant endemism and are associated with the endangered Lower Gariep Alluvial vegetation listed as National Threatened Ecosystem, 2011;
- Several protected tree and floral species have the potential to be located within the prospecting focus areas;
- ☐ Richtersveld National Park has high eco-tourism aspect. The prospecting activities will have the potential to have a significant impact on the ecotourism of the area (hiking, sport fishing, bird watching, river rafting, high biodiversity)

SUMMARY OF POTENTIAL SCREENED IMPACTS, ISSUES

- □ The Orange River System is extremely ecologically important and sensitive. The proposed prospecting and bulk sampling activities poses a very significant risk to the system. It is thus deemed essential that all aspects of the proposed prospecting and bulk sampling activities are considered in extensive detail, and all aspects are exceptionally well planned and executed. It must also be noted from the outset that significant constraints are likely to be placed on the activity to conserve the environment, as a minimum, if the development is authorised to proceed at all. □Visual Impact:
 - The area is intrinsically dark with limited to no sources of nigh time-lighting. The prospecting and bulk sampling activities could have a negative impact on the landscape character, sense of place and visual quality of the area.
 - □Bulk sampling activities may have a potentially very significant negative visual impact on the camping sites within the Richtersveld National Park.
- □ A full list of potential impacts are included in the Scoping Reports for the applications and Specialist Scoping Reports and are subject to further indepth fields investigation by specialists

LEGAL IMPLICATIONS

- □ PRAA 2 and pockets 4, 5 and 6 are located within a protected area (Richtersveld National Park, Richtersveld Cultural Botanical Landscape). According to NEMPAA these areas are legally protected, and mining herein is prohibited;
- □ NATIONAL DEPT. ENVIRONMENTAL AFFAIRS: PROTECTED AREAS AND SANPARKS are being engaged in this regard as key stakeholders in the EIA Process for the applications.
- □A virtual meeting is scheduled with these parties on 9 December 2020, 10am;

SPECIALIST INVESTIGATIONS REQUIRED

Study	Aspect
Terrestrial Biodiversity	Fauna, Flora, Avifauna
Freshwater Study	Aquatic Ecology, fish
Heritage and Palaeontological Study	Cultural, Heritage, Palaeontological resources
Surface and Groundwater Study	Impact on surface and groundwater
Visual Impact Assessment	Sense of place, light pollution,

- Naledzi and specialists require access to prospecting right areas to conduct the above field investigations.
- ☐ The field investigations will allow Naledzi to determine the full scope of the potential impacts and to produce a well informed EIR and EMPR Reports for the application areas.
- ☐ The intention is to conduct the investigations from 6 12 January 2021
- □ Access is still been sought to the bulk of the prospecting right areas with the assistance of DMRE, due to existing mining operations.

Other Licenses Required

Water Use License Application to Department of Water and Sanitation:

- □A WUL Application in terms of section 40 of the NWA will be submitted to the Department of Water and Sanitation: Orange Proto for Section 21 water uses (S21a, c, f, g, i) triggered by the diamond prospecting including an application for the relaxation of conditions imposed by GN704 (GG-20119), due to workings within the river flood line. Applicable water uses include:
- □S 21a Abstracting water from the Orange River
- □S21c Diversion of the water course during the bulk sampling, impeding natural flow
- □S21f Clarified water from the filtration process at the prospecting works will be released back to the river
- □S21g Stockpiles (topsoil, product/alluvial gravel, waste material) and temporary on-site disposal of waste
- ■S21i Temporary altering of course of the water course, bulk sampling excavation and subsequent rehabilitation within the 1: 100 year flood line, release of clarified water back into the Orange River downstream of the workings

CONCLUSION

Samara Mining (Pty) Ltd values the environment and communities of the application areas and is therefore undertaking a high end environmental impact assessment process to:

- □Gauge the likely environmental impacts of the project;
- □ Formulate mitigations measures with the assistance of multi disciplined specialist team, to avoid and or manage the potential significant impacts of the prospecting and bulk sampling activities along the Orange River.
- □It is Samara's intention to work in a phased (small-scale) manner with concurrent rehabilitation to minimise potential impacts and risk of degradation of the affected focus areas.



Our Contact Details

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Marissa Botha



015 296 3988



084 226 5584



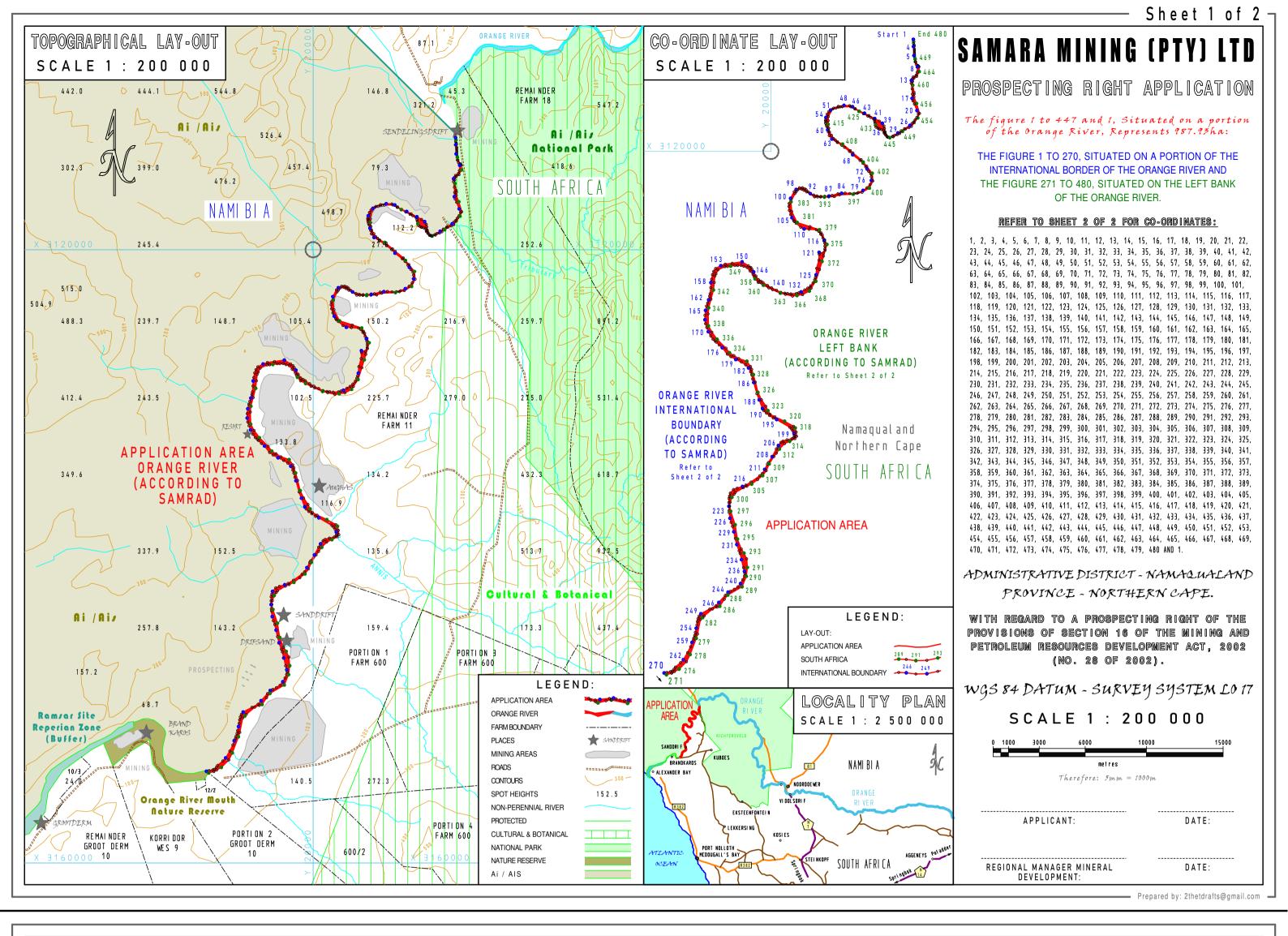
botham@naledzi.co.za



www.naledzi.co.za

Way Forward

- □ Prepare, distribute and finalise the minutes of the focus group meeting;
- □Incorporate all commenting authority and public inputs received during the Scoping Phase in a consolidated Issues and Response Report and into the Final Scoping Reports;
- □Submit the Final Scoping Reports to DMR: Springbok by no later than 11 January 2021;
- DMR will notify the EAP within 43 days if the reports are accepted/rejected;
- □Conduct public engagement meetings with communities in January 2021
- □Commence with EIA Phase and specialist field investigations from January to February 2021
- □Prepare EIR & EMPR Reports
- □Conduct 2nd round of public engagements

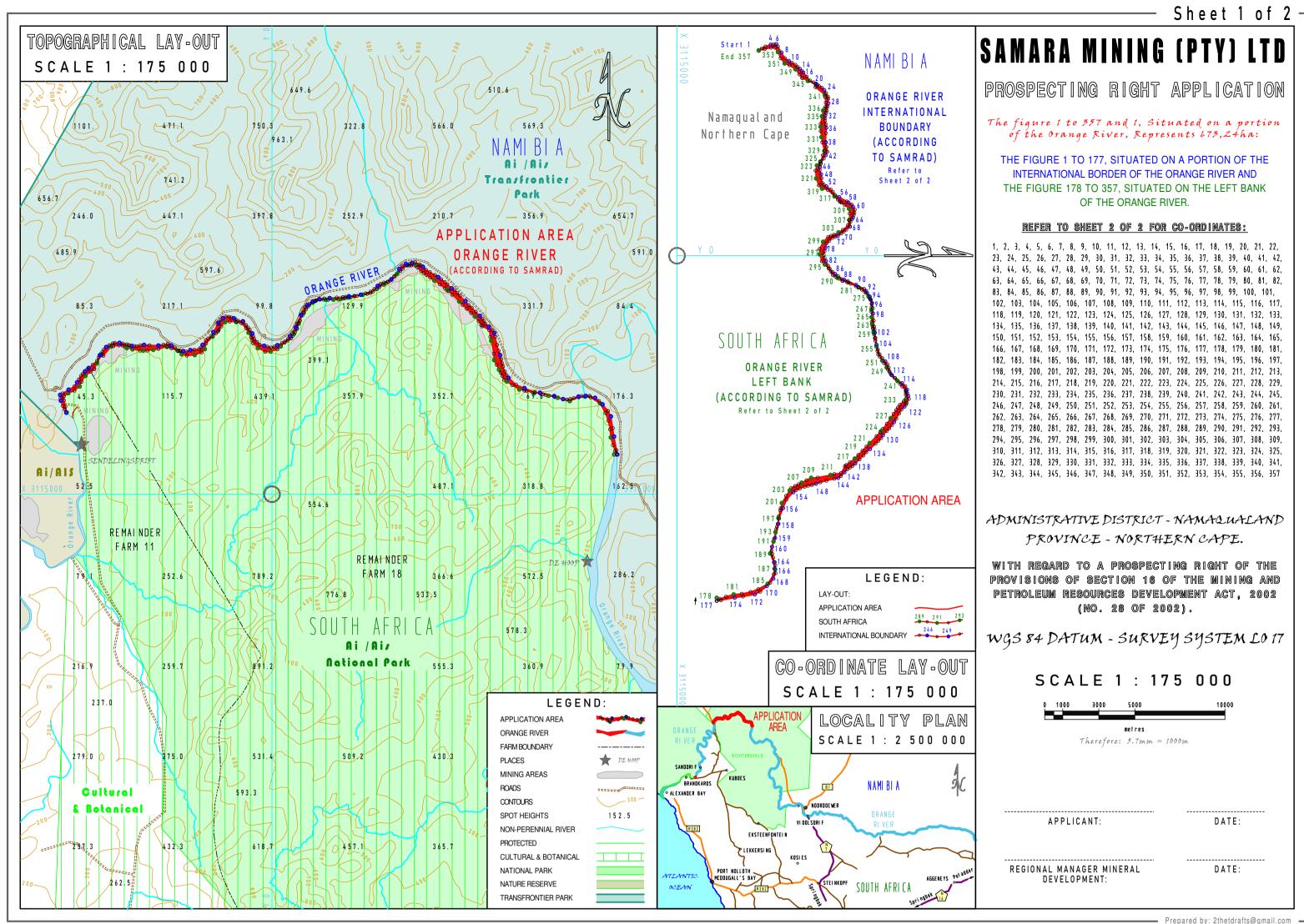


WGS 84 DATUM - SURVEY SYSTEM LO 17

GIS CO-ORDINATES:

Sheet 2 of 2

d	Lat	Long	ld L	a t	Long	l d	Lat	Long	l d	Lat	Long	l d	Lat	Long	l d	Lat	Long	l d	Lat	Long	l d	Lat	Lon
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2	-28.130891	16.891052	62 –28	. 185069	16.835026	122	-28.255018	16.828270	182	-28.321790	16.781155	242	-28.452020	16.771392	302	-28.395084	16.772179	362	-28.275773	16.797250	422	-28.168180	16.8437
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GIS CO-ORDINATES:

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4	-28.10249	16.88075	64 -28.06129	16.97845	124 -28.03815	7.08913			181 –28	8.12089	17.19137		-28.03895	17.07069	301	-28.07218	16.98872			
5	-28.10123	16.88059	65 -28.06181	16.97944		7.09208				8.11687	17.19098		-28.03933	17.07018			16.98817			
6	-28.09961	16.88038	66 -28.06254	16.98080		7.09389					17.18994		-28.04041	17.06902		-28.06851	16.98676			
/	-28.09884	16.88181	67 -28.06279	16.98348		7.09556				8.10860	17.18832	244	-28.04178	17.06756	304	-28.06630	16.98536			
8		16.88520	68 -28.06284 69 -28.06460	16.98358	128 -28.04312 129 -28.04432					8.10381	17.18530	245	-28.04204 -28.04243		305 306	-28.06379 -28.06319				
10		16.88994	70 -28.06593	16.98647		7.10134					17.17900			17.06542		-28.06315				
11		16.89093	71 -28.06716		131 -28.04714						17.17326			17.06422	308		16.97614			
12		16.89212	72 -28.06886	16.98884		7.10454				8.10266	17.16819		-28.04438	17.06303			16.97344			
13	-28.08903	16.89321	73 -28.07028	16.98942	133 -28.04993	7.10610			190 –28	8.10180	17.16437	250	-28.04574	17.06063	310	-28.06327	16.97332			
14	-28.08786	16.89442	74 -28.07166	16.98998	134 -28.05269	7.10920			191 –28	8.10100	17.16142	251	-28.04661	17.05918	311	-28.06542	16.97140			
15	-28.08681	16.89570	75 -28.07314	16.99156	135 -28.05462	7.11099			192 –28	8.10070	17.15981	252	-28.04789	17.05702	312	-28.06699	16.96997			
16	-28.08618	16.89648	76 -28.07452	16.99302	136 -28.05597	7.11281			193 –28	8.10002	17.15612	253	-28.04870	17.05567	313	-28.06706	16.96993			
17		16.89885	77 -28.07509		137 -28.05796						17.15450	254	-28.04904			-28.06773				
18		16.90109	78 -28.07515			7.11730				8.09928	17.15312	255	-28.04952	17.05111			16.96943			
19		16.90210	79 -28.07551	16.99733		7.11880				8.09886	17.15141		-28.05010	17.04794			16.96825			
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22	-28.07903	16.90428	82 -28.07479	17.00133		7.12033				8.09767	17.14724	259	-28.05069 -28.05088	17.04448			16.96210			
23		16.90511	83 -28.07374			7.12443					17.14252	260		17.04356	320		16.96028			
24		16.90644	84 -28.07294			7.12553					17.13964		-28.05127			-28.07970				
25	-28.07473		85 -28.07159		145 -28.07063						17.13563		-28.05143			-28.08002				
26	-28.07382	16.91011	86 -28.07025	17.01022	146 -28.07451	7.12704			203 –28	8.09291	17.13256	263	-28.05166	17.03865	323	-28.07929	16.94901			
27	-28.07357	16.91125	87 -28.06878	17.01141	147 -28.07756	7.12797			204 -28	8.09210	17.13117	264	-28.05187	17.03736	324	-28.07764	16.94700			
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		16.92578			155 -28.09447						17.12377		-28.05257			-28.07746				
36	-28.07461		96 -28.05171		156 -28.09624						17.12265		-28.05273			-28.07748				
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47			107 -28.04658	17.05782	167 -28.09995						17.09886		-28.06248			-28.07999				
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52	-28.07459		112 -28.04173		172 -28.11033						17.08713		-28.06825			-28.09006				
53		16.96266	113 -28.04025		173 -28.11622						17.08564			17.01236		-28.09305				
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57		16.96933	117 -28.03393		177 -28.12938						17.08113			17.00900		-28.10029				
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59	-28.06195		119 -28.03325								17.07634		-28.07691			-28.10546				
60	-28.06127		120 -28.03426								17.07631		-28.07796			-28.10843				

