

Stella Moeketse

From: Victoria Tucker
Sent: 01 February 2012 10:45 AM
To: nemutandanit@dwaf.gov.za
Subject: FW: THARISA MINERALS (PTY) LTD. EIA/EMP AMENDMENT I. REGULATORY AUTHORITIES SCOPING MEETING
Attachments: BID_Tharisa_EMPAmend_Eng_20Jan2012 PDF.pdf; T014-12 Figure 1 for Bid with Amendments Layout1 (1)_Email.jpg
Importance: High

Good morning Mr Nemutandani

The Regulatory Authorities meeting will be held on the 21st of February 2012 at Tharisa Mine Boardroom at 11am. If there are not enough people that are able to attend on the 21st, then the 22nd or 23rd will be the alternative dates.

Which date would suit you best?

Kind regards

Victoria Tucker
SLR Consulting (Africa) (Pty) Ltd

Email: vtucker@slrconsulting.com
Mobile: +27 83 533 3576
Tel: +27 11 467 0945
Fax: +27 11 467 0978

SLR Africa (Block 7)
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Fourways, Johannesburg
South Africa, Johannesburg, 2060, South Africa



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SLR Consulting (South Africa) (Proprietary) Limited and SLR Consulting (Africa) (Proprietary) Limited are both subsidiaries of SLR Management Ltd.

Registered Office: Unit 2 Fourways Manor Office Park, Cnr Roos and Macbeth Street, Fourways, 2055, Gauteng, South Africa

Stella Moeketse

From: Victoria Tucker
Sent: 20 February 2012 10:47 AM
To: motlalekgomommope@madibeng.gov.za
Cc: Stella Moeketse
Subject: FW: Tharisa Mine: EMP Amendment I- Scoping/Site Meeting Invitation
Attachments: BID_Tharisa_EMPAmend_Eng_20Jan2012 PDF.PDF; T014-12 Figure 1 for Bid with Amendments Layout1 (1)_Email.jpg

Tracking:	Recipient	Read
	motlalekgomommope@madibeng.gov.za	
	Stella Moeketse	Read: 2012/02/20 10:59 AM

From: Victoria Tucker
Sent: 14 February 2012 02:30 PM
To: 'mmohlalisi@nwpg.gov.za'; 'smukhola@nwpg.gov.za'; 'rnemanashi@nwpg.gov.za'; 'DTMahlaku@nwpg.gov.za'; 'PMATLAPENG@nwpg.gov.za'; 'percy.matlapeng@gmail.com'; 'oskosana@nwpg.gov.za'; 'clast@nwpg.gov.za'; 'jnkosi@ruraldevelopment.gov.za'; 'JKNkosi@dla.gov.za'; 'dkmolebatsi@ruraldevelopment.gov.za'; 'kmekgoe@rustenburg.gov.za'; 'tlenake@rtbcc.co.za'; 'gomolemomoalusi@madibeng.gov.za'; 'sammkhabela@madibeng.gov.za'; 'info@rainstar.co.za'; 'lmahlangu@environment.gov.za'; 'zmbili@environment.gov.za'; 'jmarais@deat.gov.za'; 'nemutandanit@dwaf.gov.za'; 'ishmaelm@nda.agric.za'
Cc: Stella Moeketse
Subject: Tharisa Mine: EMP Amendment I- Scoping/Site Meeting Invitation

THARISA MINERALS (PTY) LTD EIA/EMP AMENDMENT I

SCOPING/ SITE MEETING INVITATION FOR:

THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE

Dear Regulatory Authorities,

As you are all aware, Tharisa Minerals (Pty) Ltd (Tharisa) is an existing chrome and platinum group metals (PGM) concentrate producing mine that is located near Marikana town in the Rustenburg and Madibeng Local Municipalities and Bojanala Platinum District Municipality in the North West Province. Tharisa proposes to construct a PGM smelter house and associated infrastructure, a chrome sand drying plant, store hazardous substances (eg. acid), store hazardous waste (eg. used acid), change the tailings dam design and characteristics and change the general surface infrastructure layout at Tharisa Mine. The proposed activities will be located at the mine, on the farms Kafferskraal 342 JQ, Rooikoppies 297 JQ and Elandsdrift 467 JQ.

Prior to the commencement of the proposed projects an environmental assessment process including: a scoping phase, environmental impact assessment (EIA) phase and an environmental management programme (EMP) amendment. SLR Consulting (Africa) (SLR), an independent firm of environmental consultants, has been appointed by Tharisa to manage the environmental assessment process.

As public involvement is an essential component of the environmental assessment process, you have been identified as the regulatory authority who may be interested in hearing more about the project and who may wish to provide input into the environmental assessment process. In this regard, please find attached a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

This letter serves to invite you to the focused scoping/ site meeting for Regulatory Authorities . The details for the meeting are provided below:

- **Date:** 21st February 2012
- **Venue:** Tharisa Mine Main Boardroom
- **Time:** 11h00

Attached please find a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

If you have any questions in this regard please contact the undersigned.

Regards

Stella Moeketse
Environmental Assessment Practitioner
SLR Consulting (Africa) (Pty) Ltd

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Email: vtucker@slrconsulting.com

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Stella Moeketse

From: Victoria Tucker
Sent: 17 February 2012 01:17 PM
To: kmekgoe@rustenburg.gov.za; tlenake@rtbcc.co.za
Cc: Stella Moeketse
Subject: Directions to Tharisa Minerals for Regulatory Authority Scoping Meeting
Attachments: BID_Tharisa_EMPAmend_Eng_20Jan2012 PDF.PDF; T014-12 Figure 1 for Bid with Amendments Layout1 (1)_Email.jpg

Tracking:	Recipient	Read
	kmekgoe@rustenburg.gov.za	
	tlenake@rtbcc.co.za	
	Stella Moeketse	Read: 2012/02/17 01:31 PM

Hi Kelebogile Mekgoe

As per our telephonic conversation yesterday, below are the directions to Tharisa Minerals for the Regulatory Authority Scoping Meeting on Tuesday 21 February 2012.

Tharisa Mine is located to the left of Marikana/Buffelspoort Toll Gate (from Rustenburg and right from Pretoria direction), take Marikana/Buffelspoort Off-ramp from the N4, it is the second property on the main road to Marikana town and the main gate is to right along the Marikana road.

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For any further information please contact the undersigned.

Kind regards

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Fourways, Johannesburg
South Africa, Johannesburg, 2060, South Africa

Victoria Tucker
SLR Consulting (Africa) (Pty) Ltd

Stella Moeketse

From: Victoria Tucker
Sent: 20 February 2012 10:51 AM
To: matomimanaka@madibeng.gov.za
Cc: Stella Moeketse
Subject: FW: Tharisa Mine: EMP Amendment I- Scoping/Site Meeting Invitation
Attachments: BID_Tharisa_EMPAmend_Eng_20Jan2012 PDF.PDF; T014-12 Figure 1 for Bid with Amendments Layout1 (1)_Email.jpg

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	Stella Moeketse	Read: 2012/02/20 10:59 AM

From: Victoria Tucker
Sent: 14 February 2012 02:30 PM
To: 'mmohlalisi@nwpg.gov.za'; 'smukhola@nwpg.gov.za'; 'rnemanashi@nwpg.gov.za'; 'DTMahlaku@nwpg.gov.za'; 'PMATLAPENG@nwpg.gov.za'; 'percy.matlapeng@gmail.com'; 'oskosana@nwpg.gov.za'; 'clast@nwpg.gov.za'; 'jnkosi@ruraldevelopment.gov.za'; 'JKNkosi@dla.gov.za'; 'dkmolebatsi@ruraldevelopment.gov.za'; 'kmekgoe@rustenburg.gov.za'; 'tlenake@rtbcc.co.za'; 'gomolemomoalusi@madibeng.gov.za'; 'sammkhabela@madibeng.gov.za'; 'info@rainstar.co.za'; 'lmahlangu@environment.gov.za'; 'zmbili@environment.gov.za'; 'jmarais@deat.gov.za'; 'nemutandanit@dwaf.gov.za'; 'ishmaelm@nda.agric.za'
Cc: Stella Moeketse
Subject: Tharisa Mine: EMP Amendment I- Scoping/Site Meeting Invitation

THARISA MINERALS (PTY) LTD EIA/EMP AMENDMENT I

SCOPING/ SITE MEETING INVITATION FOR:

THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE

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Stella Moeketse

From: Victoria Tucker
Sent: 14 February 2012 02:30 PM
To: 'mmohlalisi@nwpg.gov.za'; 'smukhola@nwpg.gov.za'; 'nmanashi@nwpg.gov.za'; 'DTMahlaku@nwpg.gov.za'; 'PMATLAPENG@nwpg.gov.za'; 'percy.matlapeng@gmail.com'; 'oskosana@nwpg.gov.za'; 'clast@nwpg.gov.za'; 'jnkosi@ruraldevelopment.gov.za'; 'JKNkosi@dla.gov.za'; 'dkmolebatsi@ruraldevelopment.gov.za'; 'kmekgoe@rustenburg.gov.za'; 'tlenake@rtbcc.co.za'; 'gomolemomoalusi@madibeng.gov.za'; 'sammkhabela@madibeng.gov.za'; 'info@rainstar.co.za'; 'lmahlangu@environment.gov.za'; 'zmbili@environment.gov.za'; 'jmarais@deat.gov.za'; 'nemutandanit@dwaf.gov.za'; 'ishmaelm@nda.agric.za'
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	'PMATLAPENG@nwpg.gov.za'		
	'percy.matlapeng@gmail.com'		
	'oskosana@nwpg.gov.za'		
	'clast@nwpg.gov.za'		
	'jnkosi@ruraldevelopment.gov.za'		
	'JKNkosi@dla.gov.za'		
	'dkmolebatsi@ruraldevelopment.gov.za'		
	'kmekgoe@rustenburg.gov.za'		
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	'nemutandanit@dwaf.gov.za'		
	'ishmaelm@nda.agric.za'		
	Stella Moeketse	Delivered: 2012/02/14 02:30 PM	Read: 2012/02/14 02:52 PM

**THARISA MINERALS (PTY) LTD
EIA/EMP AMENDMENT I**

SCOPING/ SITE MEETING INVITATION FOR:

THE PROPOSED CONSTRUCTION AND OPERATION OF THE SMELTER HOUSE AND ASSOCIATED INFRASTRUCTURE, CONSTRUCTION AND OPERATION OF THE CHROME SAND DRYING PLANT, STORAGE OF HAZARDOUS SUBSTANCES, CHANGES TO THE DESIGN AND CHARACTERISTICS OF THE TAILINGS STORAGE FACILITY AND CHANGES TO THE GENERAL LAYOUT OF THE MINE

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Regards

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2191, Cnr Roos and Macbeth Streets
Fourways, Johannesburg
South Africa, Johannesburg, 2060, South Africa

Stella Moeketse

From: Victoria Tucker
Sent: 25 January 2012 10:55 AM
To: asalomon@sahra.org.za
Cc: Stella Moeketse
Subject: FW: Tharisa Minerals - Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) Amendment
Attachments: BID_Tharisa_EMPAmend_Eng_20Jan2012 PDF.pdf; T014-12 Figure 1 for Bid with Amendments Layout1 (1)_Email.jpg

Dear Regulatory Authority,

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Please note that a representative from SLR will be in contact telephonically to make arrangements to set up a site meeting/ scoping meeting with a representative from your department and other Regulatory Authorities.

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Regards

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Stella Moeketse

From: Victoria Tucker
Sent: 25 January 2012 10:24 AM
To: aaron@mekls.nwp.gov.za; mmohlalisi@nwp.gov.za; mokomalrb@webmail.co.za; DTMahlaku@nwp.gov.za; nemutandanit@dwaf.gov.za; ishmaelm@nda.agric.za; clast@nwp.gov.za; jmarais@deat.gov.za; cscheermeyer@sahra.org.za; jnkosi@ruraldevelopment.gov.za; JKNkosi@dla.gov.za; dkmolebatsi@ruraldevelopment.gov.za; niehaus@nwp.gov.za; hpnel@mweb.co.za; evdyk@nwp.gov.za; kmekgoe@rustenburg.gov.za; tlenake@rtbcc.co.za; gomolemomoalusi@madibeng.gov.za; sammkhabela@madibeng.gov.za; info@rainstar.co.za
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Tracking:

Recipient

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gomolemomoalusi@madibeng.gov.za
sammkhabela@madibeng.gov.za
info@rainstar.co.za
Stella Moeketse

Read: 2012/01/25 11:05 AM

Dear Regulatory Authorities,

Tharisa Minerals (Pty) Ltd (Tharisa) is an existing chrome and platinum group metals (PGM) concentrate producing mine that is located near Marikana town in the Rustenburg and Madibeng Local Municipalities and Bojanala Platinum District Municipality in the North West Province. Tharisa proposes to construct a PGM smelter house and associated infrastructure, a chrome sand drying plant, store hazardous substances (eg. acid), store hazardous waste (eg. used acid), change the tailings dam design and characteristics and change the general surface infrastructure

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Stella Moeketse

From: Jacqueline Nkosi <JKNkosi@ruraldevelopment.gov.za>
Sent: 25 January 2012 12:35 PM
To: Victoria Tucker
Subject: Re: Tharisa Minerals - Environmental Impact Assessment and Management Programme (EIA/EMP) Amendment Environmental

Dear Victoria

receipt of your email is acknowledged, I still need to verify the ownership of the property. I will provide you with a full response.

>>> Victoria Tucker <vtucker@slrconsulting.com> 1/25/2012 10:23 AM >>>
Dear Regulatory Authorities,

Tharisa Minerals (Pty) Ltd (Tharisa) is an existing chrome and platinum group metals (PGM) concentrate producing mine that is located near Marikana town in the Rustenburg and Madibeng Local Municipalities and Bojanala Platinum District Municipality in the North West Province. Tharisa proposes to construct a PGM smelter house and associated infrastructure, a chrome sand drying plant, store hazardous substances (eg. acid), store hazardous waste (eg. used acid), change the tailings dam design and characteristics and change the general surface infrastructure layout at Tharisa Mine. The proposed activities will be located at the mine, on the farms Kafferskraal 342 JQ, Rooikoppies 297 JQ and Elandsdrift 467 JQ.

Prior to the commencement of the proposed projects an environmental assessment process including: a scoping phase, environmental impact assessment (EIA) phase and an environmental management programme (EMP) amendment. SLR Consulting (Africa) (SLR), formerly known as Metago Environmental Engineers (Pty) Ltd (Metago), an independent firm of environmental consultants, has been appointed by Tharisa to manage the environmental assessment process.

As public involvement is an essential component of the environmental assessment process, you have been identified as the regulatory authorities who may be interested in hearing more about the project and who may wish to provide input into the environmental assessment process. In this regard, please find attached a copy of the project's background information document (BID) prepared by SLR for your perusal and comments.

Please note that a representative from SLR will be in contact telephonically to make arrangements to set up a site meeting/ scoping meeting with a representative from your department and other Regulatory Authorities.

If you have any questions in this regard please contact the undersigned.

Regards

Stella Moeketse
Environmental Assessment Practitioner
SLR Consulting (Africa) (Pty) Ltd

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Registered Office: Unit 2 Fourways Manor Office Park, Cnr Roos and Macbeth Street, Fourways, 2055, Gauteng, South Africa

Stella Moeketse

From: Stella Moeketse
Sent: 10 February 2012 04:25 PM
To: ANDREW SALOMON
Cc: Victoria Tucker
Subject: RE: Tharisa Minerals EIA and EMP

Dear Andrew,

Thank you very much for the speedy response. We will capture, save them accordingly and they will be addressed in the EIA/EMP phase.

Many thanks.

Kind regards

Stella Moeketse
Environmental Assessment Practitioner
Metago Environmental Engineers (Pty) Ltd Metago Water Geosciences (Pty) Ltd

Email: <mailto:smoeketse@slrconsulting.com>

Mobile: +27 72 380 5609

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P O Box 1596, Cramerview, 2060

Unit 7 Fourways Manor Office Park, 1 Macbeth Avenue, Fourways, 2055, Gauteng, South Africa (JHB) Pentagon House, 669 Plettenberg Road, Faerie Glen, Pretoria, 0043, South Africa (PTA)

-----Original Message-----

From: ANDREW SALOMON [<mailto:ASALOMON@sahra.org.za>]
Sent: 09 February 2012 03:27 PM
To: Stella Moeketse
Cc: Mothlabane Mosiane; COLETTE SCHEERMEYER
Subject: Re: Tharisa Minerals EIA and EMP

Attached please find the SAHRA APM Unit response to your notification regarding the above development.

Regards,
Andrew Salomon

Archaeological Heritage Impact Assesor
South African Heritage Resources Agency

Email: asalomon@sahra.org.za

Tel: 021 462 4502

Fax: 021 462 4509

Web : www.sahra.org.za

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THARISA MINERALS (PTY) LTD

FOCUSSED SCOPING MEETING WITH HILTON BEDWELL

DATE	11h10, 2 February 2012
VENUE:	Hilton Bedwell's Restaurant in Buffelspoort
PROJECT:	Focussed Scoping Meeting
PROJECT NUMBER:	T014-12/ 710.20002.00012
PURPOSE:	The purpose of the focussed scoping meeting was to provide information on: <ul style="list-style-type: none">• proposed projects;• environmental authorisation process;• raise and record environmental issues; and• identify possible specialist investigations
ATTENDANCE:	An attendance register is presented in Appendix 1.

1. OPEN AND INTRODUCTION

The meeting was opened by Hilton Bedwell from Buffelspoort that is located south of the N4 toll gate near Marikana Town. Hilton Bedwell introduced Johan van Heerden and Barend Clark who are also from Buffelspoort. Stella Moeketse from SLR Consulting (Africa) (Pty) Ltd (SLR) introduced Suan Mulder from SLR.

2. PRESENTATIONS

As part of the information sharing process, Stella Moeketse gave an outline of the proposed projects and the environmental authorisation process being followed as outlined in the background information document (BID). A copy of the BID is attached in Appendix 2.

3. DISCUSSION

All the issues that were raised in the meeting have been recorded in Table 1 below. Where a response was provided this has also been included in the table. Given the nature of this meeting, not all questions could be answered during the meeting.

All the issues have been recorded and will be addressed in the environmental impact assessment (EIA) process.

TABLE 1: RECORD OF ISSUES RAISED AND RESPONSES GIVEN

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)
Process Related Issues		
Why has SLR not consulted us as part of Tharisa's EMP Amendment process?	Hilton Bedwell	SLR is still in the initial phase of the EMP Amendment process and has just commenced with the PPP.
Due to the new date of our feedback meeting (13 of February 2012) with Tharisa, we would like SLR to postpone the scoping meetings that are currently scheduled to take place on 16 of February 2012 so that we can consult our lawyers in time for these meetings.	Hilton Bedwell, Johan van Heerden and Barend Clark	It was agreed that the meetings will not be postponed and that SLR will arrange a feedback meeting during the review of the EIA/EMP Amendment Report phase to address all the raised issues and give feedback on the specialist studies. The purpose of the scoping meetings is to share information with the IAPs, understand their concerns and to ensure that these issues are covered in the terms of reference for the specialist studies.
Why has Tharisa constructed the foundation of the smelter house? We are aware that the mine has already constructed it without authorisation from the government.		This issue has been recorded and will be addressed in the EIA process but Tharisa is of the view that no construction of the smelter house has commenced.
Technical Related Issues		
Why does Tharisa want to construct a smelter house when they had previously informed us that they will not do so?	Hilton Bedwell	This issue has been recorded and will be addressed in the EIA process.
Does Tharisa have any plans of undertaking underground mining activities in our area (south of the N4)?	Hilton Bedwell, Johan van Heerden and Barend Clark	No.
What will Tharisa do with the by products (e.g. nickel) from the smelting process?		All the issues have been recorded and will be addressed in the EIA process.
Will the tailings dams be lined?		
Are there emergency plans in place in case there is the tailings dam's failure?		
Blasting Related Issues		
Current operations at Tharisa Mine particularly blasting related activities have caused damage to our structures e.g. cracking of houses/structures.	Hilton Bedwell, Johan van Heerden and Barend Clark	All the issues have been recorded and will be addressed in the EIA process.
We are concerned about fly rock from the blasting activities which is a safety related matter (south of the N4).		
Does Tharisa monitor its blasting impacts?		
How often does it monitor?		
Who monitors the impacts?		
How do we know that all the activities that impact us are captured in the monitoring process? We feel that the current monitoring processes capture information on a specific period and selective sites and not all throughout the operations of the mine.		
Biodiversity Related Issues		
Our trees are already taking on strain from the current mining operations and we feel that the proposed projects will exacerbate the situation.	Hilton Bedwell, Johan van Heerden and Barend Clark	All the issues have been recorded and will be addressed in the EIA process.
We are also concerned that the bees that are needed for farming activities particularly for the pollination process will be in more danger of being depleted by the proposed activities- smelter house.		
Groundwater Related Issues		

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)
Is groundwater not going to be affected by the proposed projects?	Hilton Bedwell, Johan van Heerden and Barend Clark	These issues have been recorded and will be addressed in the EIA process.
How does Tharisa monitor groundwater to ensure that there is no contamination or it is determined as early as possible?		
Will Tharisa compensate the landowners if the boreholes water is contaminated?		
Surface Water Related Issues		
What are the impacts of the mine on the Sterkstroom river?	Hilton Bedwell, Johan van Heerden and Barend Clark	All the issues have been recorded and will be addressed in the EIA process.
We are concerned that Tharisa has relocated Maditlhokwa community closer to the banks of the Sterkstroom and this may increase the potential negative impacts on it by this community.		
What is Tharisa going to do to ensure that the water is not contaminated?		
We are concerned that should Tharisa be authorised to use the water from the Buffelstroom dam for mining activities there will be a shortage of water for other users particularly during the dry season.		
Does Tharisa get its water from the Sterkstroom?		
Has it been authorised to get water from the Sterkstroom?		
Traffic Related Issues		
How is Tharisa planning to transport its products?	Hilton Bedwell, Johan van Heerden and Barend Clark	All the issues have been recorded and will be addressed in the EIA process.
Will the proposed projects cause an increase in traffic? How will it be dealt with?		
Noise Related Issues		
We are unhappy with the negative impacts that we are experiencing due to the current operations particularly noise impacts at night. The reverse noise indicators, movement of the trucks and the many other activities that are taking place at night.	Hilton Bedwell, Johan van Heerden and Barend Clark	These issue has been recorded and will be addressed in the EIA process.
We are completely against the current and proposed 24hr operations at the mine as the activities impact on us negatively. We need to sleep in a quiet environment without noise coming from the mine.		
Visual Related Issues		
We are unhappy with the negative impacts that we are experiencing due to the current operations and we are concerned that these impacts are going to get worse should the government authorise the proposed projects.	Hilton Bedwell, Johan van Heerden and Barend Clark	This issue has been recorded and will be addressed in the EIA process.
Socio-economic- Tourism Related Issues		
Buffelspoort area used to be the gate way for tourism but that is no longer the case due to all these mining activities including Tharisa Mine.	Hilton Bedwell	This issue has been recorded and will be addressed in the EIA process.
Socio-economic- Land Purchases and Compensation Related Issues		
We are unhappy that some landowners were compensated for enduring the negative impacts of the mining operations and some were not compensated. On what basis did Tharisa Mine compensate	Hilton Bedwell, Johan van Heerden and Barend Clark	All the issues have been recorded and will be addressed in the EIA process.

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)
them?		
Tharisa should provide the surrounding landowners with notification of intent to buy them out in advance because the farmers have lease contracts that they would like to honour.		
Socio-economic- Land and Land-use Related Issues		
We are concerned that mining activities are taking over our agricultural land use in this area.	Hilton Bedwell, Johan van Heerden and Barend Clark	All the issues have been recorded and will be addressed in the EA process.
We are also concerned that we will no longer be able to undertake farming-grow crops (lucerne, vegetables and pigs and horses) and rear animals due to Tharisa Mine and the proposed projects (plot A1- A47 of the farm Buffelspoort).		
Tharisa should provide housing for its workers because they are now becoming nuisance to us (the surrounding landowners) by sleeping over in the accommodation that is provided for our workers.		
What will be the impacts of the proposed projects on Mooinooi town and Pure Plaas game park that is located south of the N4?		
My farm is located 200m away from the proposed smelter house, the rain falls in north-westerly direction and I am concerned that the potential acid rain might affect my current land use.	Hilton Bedwell	
Mr Danie Potgieter and the other landowners are concerned that they might have restricted access to their properties via the bridge that transverse the N4 on the farm Elandsdrift due to Tharisa's activities.		
Are there any no zone areas/ buffer zone from the mine within which no activities are allowed to take place?		

4. THE WAY FORWARD

Stella Moeketse explained that all the raised issues have been captured and will be forwarded to Tharisa for their response in the EIA process;

Additional comments can be sent to SLR, be left at Tharisa Offices (with Thulani Ntshanga) for SLR's collection or will be collected at the scoping meeting on the 16 February 2012;

Copies of the scoping and EIA/EMP amendments reports and both English and Setswana summaries will be made available for public review and comments;

All the registered IAPs who have provided SLR with their postal addresses and e-mail addresses will receive copies of the summaries which will inform them where full scoping and EIA/EMP reports can be reviewed; and

All the registered IAPs who have provided SLR with their postal addresses and e-mail addresses will receive notification of the record of decision.

5. CLOSE

The meeting was closed by Hilton Bedwell.

APPENDIX 1: ATTENDANCE REGISTER

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Stella Moeketse	SLR (Africa)	P O Box 1596 Cramerview 2060	011 467 0945	smoeketse@slrconsulting.com
Suan Mulder	SLR (Africa)	P O Box 1596 Cramerview 2060	011 467 0945	smoulder@slrconsulting.com
Hilton Bedwell	Surrounding landowner	P O Box 841 Mooiooi	072 510 7847	barendclark@gmail.com
Johan van Heerden	Surrounding landowner	P O Box 3942 Brits 0250	082 337 8429	admin@f3society.co.za
Barend Clark		P O Box 31140 Wenderboompoet 0033	079 120 3770	barendclark@gmail.com

APPENDIX 2: BACKGROUND INFORMATION DOCUMENT (BID)

THARISA MINERALS (PTY) LTD

ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PROGRAMME (EIA/EMP) AMENDMENT

January 2012

INTRODUCTION

Tharisa Minerals (Pty) Ltd (Tharisa) produces chrome and platinum group metals (PGM) concentrate at Tharisa Mine near Marikana town that is located within the Rustenburg and Madibeng Local Municipalities and Bojanala Platinum District Municipality in the North West Province.

Tharisa proposes to: construct a pgm smelter house and associated infrastructure, a chrome sand drying plant, store hazardous substances (eg. acid), store hazardous waste (eg. used acid), change the tailings dam design and characteristics and change the general surface infrastructure layout at Tharisa Mine. The proposed activities will be located on the farms Kafferskraal 342 JQ, Rooikoppies 297 JQ and Elandsdrift 467 JQ (Figure 1).

ENVIRONMENTAL APPROVALS

Prior to the commencement of the proposed projects an environmental assessment process including: a scoping phase, environmental impact assessment (EIA) phase and an environmental management programme (EMP) amendment will be conducted in terms of the Mineral and Petroleum Resources Development Act, 28 of 2002 (MPRDA) and the National Environmental Management Act, 107 of 1998 (NEMA). Both laws apply because the proposed projects will be at a mine and they incorporate a number of listed/identified activities from Regulations R.544, R.545, R546 promulgated in terms of NEMA.

Some of the components of the proposed projects will also require authorisation in terms of the National Environment Management: Air Quality Act, 39 of 2004 (NEM:AQA), National Environment: Waste Act, 59 of 2009 (NEM:WA) and potentially the National Water Act, 36 of 1998 (NWA).

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

PURPOSE OF THIS DOCUMENT

This document has been prepared by SLR to inform you:

- * about the proposed project;
- * about the environmental assessment process to be followed;
- * of possible environmental impacts; and
- * of how you can have input into the environmental assessment process.

ENVIRONMENTAL PERMISSION TO BE OBTAINED

EIA/EMP amendment approval (DMR)

DMR Reference Number: NW30/5/1/2/3/2/1/358
DMR Contact Person: Mr D. P. Makamu
Tel 018-487-9830

EIA/EMP amendment approval (DEDECT)

DEDECT Reference Number: NWP/EIA/50/2011
DEDECT Contact Person: Mr R. Nemanashi
TEL 014-597-3597

EIA/EMP for Waste License (DEA)

DEA Reference Number: 12/9/11/L575/7
DEA Contact Person: Ms Z. Mbili
TEL 012-310-3870

Air Quality License (DEDECT)

This process will be commissioned once DEDECT has issued a record of decision (RoD) for the above-mentioned EIA/EMP amendment.

Water Use License Application Amendment (DWA)

This process will be commissioned once the EIA/EMP amendment process has been completed.

YOUR ROLE

Public involvement is an essential part of the environmental assessment process.

You have been identified as an interested and affected party (IAP) who may want to be informed about the proposed project and have input into the environmental assessment process.

All comments will be recorded and presented to the project team. You will receive feedback on how your comments have been taken into account and the outcome of the assessment.

HOW TO RESPOND

Responses to this document can be submitted by means of the attached comments sheet or through direct communication with the people listed below.

WHO TO CONTACT

Stella Moeketse
(011) 4670945 (tel) or
(011) 4670978 (fax) or
smoeketse@slrconsulting.com

If you would like your comments to be addressed in the scoping process please submit them by:
24 February 2012

SCOPING MEETINGS

Two public meetings have been arranged for the project as outlined below:

Meeting A

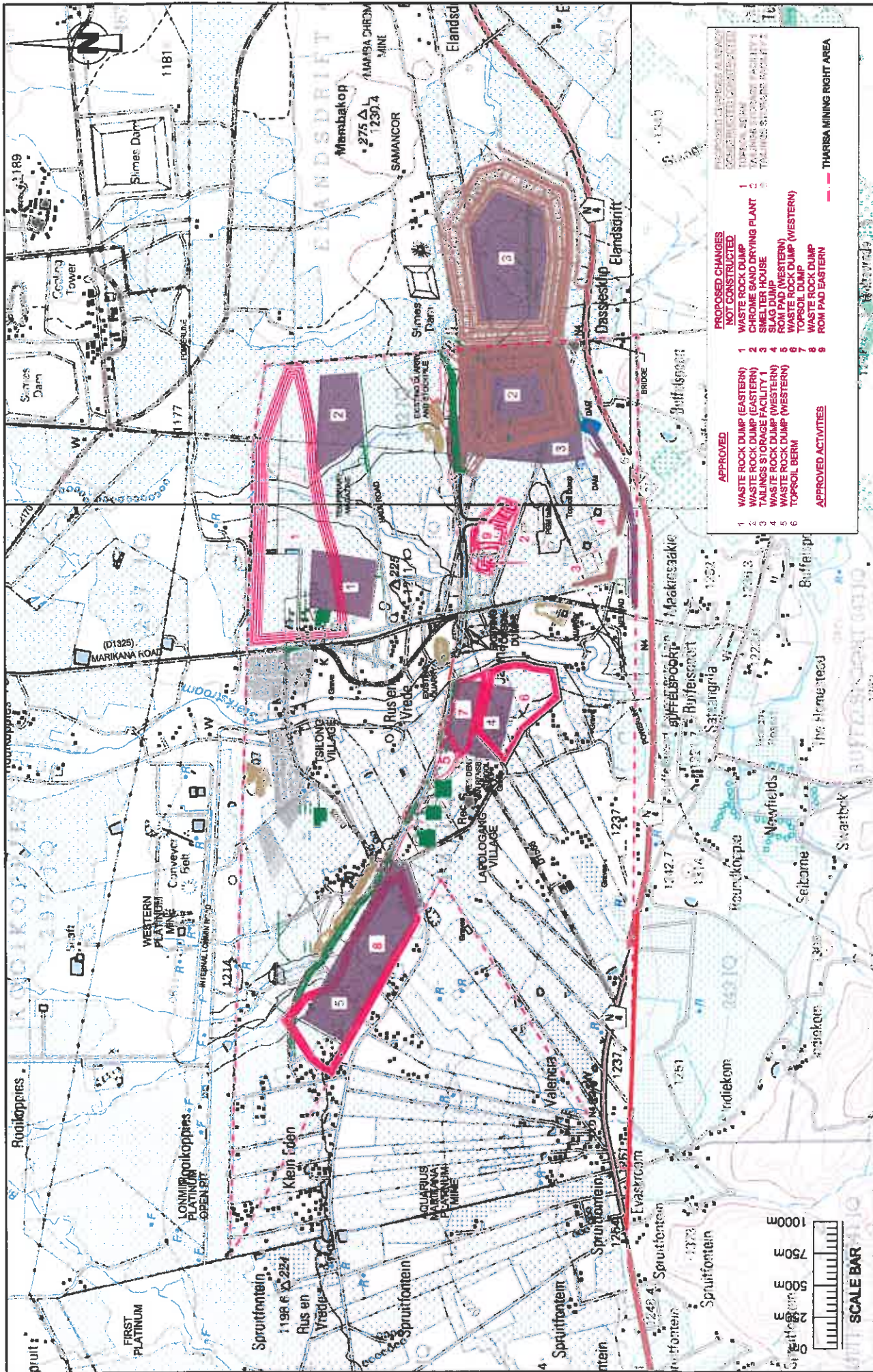
Focussed stakeholder meeting

This meeting will be arranged by invitation.

Meeting B

General public meeting

Languages: English and Setswana
Date: Thursday 16 February 2012
Time: 16H30
Venue: Retief Primary School (Hall)



PROJECT OVERVIEW

Construction of a pgm smelter house and associated infrastructure: the proposed smelter house will have a footprint of 200m x 200m and will consist of a concentrate drier, an enclosed 10MW DC Arc furnace, off-gas treatment, dust capture facilities and alloy granulation. Filtered concentrate from the existing platinum group metals (PGM) flotation circuit will be dried to 1% moisture using a combustion fuel such as liquid petroleum gas (LPG), diesel or heavy fuel oil (HFO). The dry concentrate will be fed together with anthracite, fluxes and iron ore into the DC ARC furnace, where an alloy will form at the bottom of the furnace, which is operated under reducing conditions. An inert slag (approximately 14,000m³ per year) will form above the alloy and will be tapped from the furnace and disposed of in the waste rock dumps, tailings dam and/or a dedicated slag dump. The alloy will be intermittently tapped and will be broken down for further treatment in the leach plant. The smelter house will be operated continuously (24 hours per day) to ensure stable process conditions. It is estimated that approximately 171m³ of HFO and 88m³ of LPG will be stored at the smelter house.

The leach plant will make use of acid (either hydrochloric or sulphuric acid) which will be stored (a maximum volume of 100m³) in the complex and be used to leach the base metals (mainly iron) from the PGM Alloy. The purpose of removing the base metals is to increase the concentration of precious metals in the leach residues thus increasing the value of the material. The PGM rich leach residues will be filtered and dried for sale to the precious metal refineries. The used acid will be temporarily stored in the complex prior to collection by a third party who will use it for water treatment. Iron and calcium-sulphate filter cake from the leaching circuit will be combined with the existing mine tailings stream and be disposed of in the tailings dam. Waste water (24 m³ per day) from the bleed-off of cooling circuits will be stored and reused for cooling the furnace slag prior to disposal.

Construction of a chrome sand drying plant: this plant will have a footprint of 6m x 6m and will use a fluid-bed drier to dry approximately 10,000 tons per month of chrome sand using a combustion fuel such as LPG, diesel or HFO. The plant will be located within the general plant area of the existing concentrator plant, and will be operated continuously (24 hours per day). It is estimated that approximately 150m³ of HFO will be stored in the concentrator plant area.

Change of the general infrastructure layout at Tharisa Mine: Tharisa proposes various changes to the mine's general surface layout plan. Some of these are required due to space constraints and some of these have already taken place due to practicalities on site:

- it is proposed that the open pit high wall on the eastern side of the mine will be increased from 120m to 200m;
- one top soil dump on the western side of the mine is proposed;
- realignment and reshaping of waste rock dumps –it is proposed that there will be three rock waste dumps: two on the western mine and one on the eastern side mine). It is proposed that there will also be a side slopes alteration from 14 degrees to approximately 28 degrees associated with the waste rock dumps;
- two run-of-mine (ROM) pads are proposed; one on each side of the mine (western and eastern sides of the mine);
- it is proposed that there will be an addition of the slag from the above-mentioned smelter complex into the waste rock dump, tailings; and/or a dedicated slag dump;
- the designs and sizes of the tailings facility storages (TSFs) have changed from: TSF.1 – Footprint = 52Ha; Max height = 33m; Volume = 5.4 million m³ and TSF 2 – Footprint = 100Ha; Max height = 31m; Volume = 12.8 million m³ to: TSF 1 Footprint= 69.5Ha; height= 40m; Volume= 7.7 million m³ and TSF 2: Footprint= 86Ha; height= 40m; Volume= 10.2 million m³. No lower permeability liner will be utilised along the inside face of the TSF waste rock; and
- the topsoil berm wall has shifted towards the concentrator plant which is under construction.

Timing: the abovementioned proposed activities will commence immediately after Tharisa has received the record of decisions (RoDs) from the competent regulatory authorities.

Employment: during construction, the contractors will use their own personnel and where necessary, the current workforce at Tharisa will be used. A maximum number of 400 jobs will be created during construction and 155 permanent jobs operation phases.

Housing: construction employees will be housed off-site in surrounding guest houses, guest farms, dormitories and other formal housing options in the Rustenburg area. During operational phase, the workers will be provided with a housing allowance. No on-site facilities will be provided for the employees.

Other services: since the proposed projects will be form part of additional infrastructure at the mine, water and electricity will be sourced from Tharisa Mine. Where necessary, chemical toilets, generators and water tanks will be used to provide the necessary services.

MOTIVATION

The motivation for the smelter house and associated infrastructure is economic in nature. The complex will enable Tharisa to recover additional platinum group metals (PGM's) thereby increasing the PGM and chrome value of its products. The purpose of the chrome sand drying plant is to produce higher-value chrome sand suitable for use as foundry sand.

The changes in the tailings character and design will optimise tailings disposal via the installation of toe drains on the "inside toe of the TSF containment walls". These drains will draw down the phreatic surface of the tailings dam thus making it more stable, helping the tailings consolidate and improve the placed density and reducing the hydrostatic pressures acting on the containment walls.

The other changes to the general surface infrastructure will optimise the available space at the mine.

STATUS OF THE EXISTING ENVIRONMENT

This section provides a basic description of the existing status of the environment in and around Tharisa Mine. The proposed activities (smelter house and associated infrastructure, chrome sand drying plant and the general changes of the mine's layout plan) will be constructed on the areas that are already disturbed. More detailed information will be provided in the amended EIA/EMP report.

CLIMATE

The project area is situated in the Highveld Climatic Zone which is characterised by warm to mild with a typical summer rainfall climate (December to February). The average annual temperature for the year is approximately 19°C, with average maximum temperatures ranging between 22°C and 32°C and average minimum temperatures ranging between 2°C and 18°C. Winters are cool and dry with June and July as the coldest months. Winds are generally light and blow predominantly from the north-west. Extreme weather conditions occur in the form of frost (2 to 20 occurrences per annum) and the occasional hail storm.

TOPOGRAPHY

The topography on the Tharisa Mine property is relatively flat with a gentle slope down to the north. The general area has an elevation of approximately 1200meters above mean sea level (mamsl). The natural topography surrounding the mine has been changed by current mining activities to the north and west of the project area. Approximately 2km to the south of the mine lies the Magaliesberg Mountain range Peaks in this part of the Magaliesberg rise to approximately 1400mamsl. The perennial Sterkstroom and the non-perennial tributary of the Elandsdriftspruit run in close proximity to the mine property.

GEOLOGY

Tharisa Mine is situated within the western limb of the Bushveld Complex. Generally, the strike is east-west and the dip is to the north. The target ore body is the Chrome Middle Group (MG1 – MG4).

SOILS

Soils in and around the mine area include those of the orthic phase (Mispah, Glerosa and Hutton), structured forms (Milkwood, Mayo, Shortlands, Sterkspruit, Swartland and Valsrivier), and hydromorphic forms (Sepane, Rensburg and Bonheim). The heavy structured black and dark brown clay soils (Sterkspruit, Mayo and Swartland soil forms) are commonly referred to as "black-turf" or "Cotton Soils".

LAND USE AND LAND CAPABILITY

Land use in and around the mine is a mixture of farming, mining, residential, small business and general community activities. Most land on the mine property has arable capability. Irrigation water is required for cultivation because of the unreliable rainfall in the area. Irrigation water is available from the Buffelspoort Dam by means of the Buffelspoort Government Water Scheme.

BIODIVERSITY

The Tharisa Mine is located within the savannah biome, characterised by open Acacia karoo woodlands, which occur in valleys and slightly undulating plains, and some lowland hills. This vegetation unit is of significance because it is listed as

endangered mainly due to severe impacts from transformation through cultivation and urbanisation.

GROUNDWATER

Ground water in and around the Tharisa Mine is typically between 10m and 30m below ground level and is generally influenced by the topography in the mine area. In general, the flow is from the higher ground in the south to lower lying areas in the north and towards water courses which occur in lower lying areas. The Tharisa Mine is underlain by a shallow upper weathered aquifer and a deeper fractured aquifer. Ground water is generally of good quality and can either be classified as ideal or good. Most of the boreholes in the vicinity of the mine are used for domestic and agricultural (livestock and irrigation) purposes.

SURFACE WATER

The Tharisa Mine is located within the upper reaches of the A21K quaternary catchment, which falls within the Lower Crocodile Secondary catchment and the Crocodile West and Marico Water Management Area. The mine area is drained by the perennial Sterkstroom which flows from the Buffelspoort Dam, south of the N4 in a northerly direction through the centre of the mine area and two unnamed non-perennial tributaries of the Brakspruit, an unnamed non-perennial tributary of the Maretlwane and an unnamed non-perennial tributary of the Elandsdriftspruit.

NOISE

Current noise levels in and around the mine property are representative of a combination of rural, mining and industrial activities. Existing significant noise sources include: mining activities, mechanized farming activities (for example tractors), and road traffic.

AIR

The ambient air quality is significantly influenced by various sources including: mines and industries, biomass burning, fossil fuel burning, farming, dust generated on unpaved roads, vehicle exhaust emissions.

HERITAGE RESOURCES

The most important heritage resources discovered on the mine were stone walled settlements, graveyards, a historical village and homestead, mining heritage remains, isolated and randomly scattered stone tools, historical houses and outdated and discarded agricultural implements. The heritage resources in the broader area are expected to have a potential for the following occurrences:

- historical buildings;
- stone walls; and
- graveyards.

VISUAL

Tharisa Mine is visible from most of the communities and the road network connecting the communities. The aesthetic quality of the general area has already been extensively transformed by existing mining and agricultural operations in the area.

SOCIO-ECONOMIC

Tharisa Mine is located in both Rustenburg and Madibeng Local Municipalities. Education levels in the area are low, unemployment rates are high, the establishment of the un-serviced settlements is increasing. Mining and related industries are the major formal employment provider.

ALTERNATIVES BEING CONSIDERED

The process of considering alternatives, including the "no project" option, is ongoing and will form part of the scoping, EIA and EMP phases of the environmental assessment process

POTENTIAL PROJECT ISSUES

The construction and operation of the proposed activities may impact on the following environmental components:

- biodiversity;
- dust;
- noise;

- visual
- heritage resources,
- soils,
- land use,
- surface water, and
- groundwater

ENVIRONMENTAL ASSESSMENT PROCESS

The environmental assessment process provides information on the proposed project and the environment in which it is being undertaken; identifies, **in consultation with IAPs**, the potential negative as well as positive impacts of the proposed project; and reports on measures required to mitigate such impacts to an acceptable level.

IAPs and other stakeholders will receive notification of meetings and report review periods in advance. The likely process steps and time frames are provided below:

STEPS IN THE ASSESSMENT PROCESS
PHASE 1 – Initiation (June- December 2011)
<ul style="list-style-type: none"> ▪ Conduct site visit and identify potential impacts ▪ Consultation with the Department of Mineral Resources (DMR) ▪ Submit notifications to the Department of Economic Development, Environment and Tourism (DEDECT) ▪ Submit notification to the Department of Environmental Affairs (DEA)
PHASE II – Scoping (January 2012- April 2012)
<ul style="list-style-type: none"> ▪ Notify other regulatory authorities and IAPs of the proposed project <i>(via newspaper advertisements, this document and site notices)</i> ▪ Regulatory authority meeting ▪ Key stakeholder meetings ▪ Compile the minutes of all the meetings held for the scoping phase; and ▪ Compile scoping report and make it available for comment to DMR, DEDECT, DEA, other regulatory authorities and other IAPs
PHASE III – EIA / EMP (April- October 2012)
<ul style="list-style-type: none"> ▪ Commission the specialist studies ▪ Assess impacts of proposed project and compile EIA/EMP amendment report ▪ Address all comments from the scoping report review ▪ Make this available to DMR, DEDECT, DEA, other regulatory authorities and other IAPs for review
PHASE IV- EIA/EMP Decision Making (April 2013) END
<ul style="list-style-type: none"> ▪ Circulate notification of record of decision to IAPs

PARTIES INVOLVED IN THE ASSESSMENT PROCESS

PROJECT PROPONENTS

- Tharisa Minerals (Pty) Ltd (Tharisa)

PROJECT TEAM

- SLR
- Tharisa technical team

IAPS

- Landowners
- Surrounding landowners/users
- Surrounding communities
- Non-government organisations and Associations in the area

REGULATORY AUTHORITIES

- Department of Mineral Resources (DMR)
- Department of Economic Development, Environment, Conservation and Tourism (DEDECT);
- Department of Environmental Affairs (DEA);
- Department of Water Affairs (DWA)
- Department of Agriculture (DoA)
- Department of Rural Development and Land Reform (DRDLR)
- South African Heritage Resources Agency (SAHRA)
- Rustenburg Local Municipality (RLM);
- Madibeng Local Municipality (MLM), and
- Bojanala Platinum District Municipality (BPDM).

Please let us know if there are any additional parties that should be involved!

WHO TO CONTACT

Stella Moeketse
 Tel: (011) 457-0945 (tel) or
 Fax: (011) 457-0978 (fax) or
 E-mail: smoeketse@slrconsulting.com

**THARISA MINERALS (PTY) LTD
 ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT
 PROGRAMME (EIA/EMP) AMENDMENT**

January 2012

DATE	TIME
PARTICULARS OF THE INTERESTED AND AFFECTED PARTY	
NAME	
POSTAL ADDRESS	
	POSTAL CODE
STREET ADDRESS	
	POSTAL CODE
WORK/ DAY	WORK/ DAY
TELEPHONE NUMBER	FAX NUMBER
CELL PHONE NUMBER	E-MAIL ADDRESS

PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT

PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE

Please return completed forms to:

Stella Moeketse
 SLR
 Fax: (011) 467-0978
 Tel: (011) 467-0978
 E-mail: smoeketse@slrconsulting.com



**THARISA MINERALS (PTY) LTD
EIA/EMP AMENDMENT I**

**THE PROPOSED CONSTRUCTION AND OPERATION OF ADDITIONAL SURFACE
INFRASTRUCTURE, CHANGES TO THE MINE LAYOUT AND TO THE OPERATION**

KEY STAKEHOLDER SCOPING MEETING AT THE RETIEF PRIMARY SCHOOL

DATE	11h10, 16 February 2012
VENUE:	Retief Primary School Hall
PROJECT:	Scoping Meeting
PROJECT NUMBER:	T014-12/ 710.20002.00012
PURPOSE:	The purpose of the focussed scoping meeting was to provide information on: <ul style="list-style-type: none">• proposed projects;• environmental authorisation process;• raise and record environmental issues; and• identify possible specialist investigations
ATTENDANCE:	An attendance register is presented in Appendix 1.

1. OPEN AND INTRODUCTION

The meeting was opened by Brandon Stobart from SLR Consulting (Africa) (Pty) Ltd (SLR). Brandon Stobart introduced the project team present in the meeting: Stella Moeketse and Suan Mulder from SLR and David Mitchell, Thulani Ntshanga, Peter Chennells and Derrick Baker from Tharisa Minerals (Pty) Ltd (Tharisa).

2. PRESENTATIONS

As part of the information sharing process, Brandon Stobart gave an outline of the proposed projects and the environmental authorisation process being followed as included in the presentation. A copy of the presentation is attached in Appendix 2.

3. DISCUSSION

All the issues that were raised in the meeting have been recorded in Table 1 below. Where a response was provided this has also been included in the table. Given the nature of this meeting, not all questions could be answered during the meeting.

All the comments have been recorded and will be addressed in the environmental impact assessment (EIA) process.

TABLE 1: RECORD OF ISSUES RAISED AND RESPONSES GIVEN

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)
Process Related Issues		
Has Tharisa already submitted the water use license for the proposed activities?	Johan Swanepoel	Tharisa will make an application for the additional water related activities towards the end of the EIA process.
Tharisa did not consider the use of Buffelspoort dam as an alternative for water supply in the original EIA/EMP process.	Ian Ashmole	These issues have been recorded.
Tharisa must bear in mind that they are operating without a the water use license and as a result, they are operating illegally.		
Tharisa should also note that water allocation from the Buffelspoort dam will only be limited temporary use and not a permanent use.		
We would like to the following information to be made available in the next round of meetings with SLR and Tharisa: current and future plans of Tharisa mine, location of the ore, rivers, wetlands, roads, neighbouring mines, the monitoring network and the normal wind direction.	Pieter Wolvaardt	
When will the scoping report be distributed for public review?	Jan Coetzee	Sometime in March/ April 2012.
Stakeholder Engagement Related Issues		
Tharisa does not comply with the commitment to conduct quarterly stakeholder meetings as per the original EIA/EMP report. They meet with the stakeholders only when they need authorisation for specific activities at the mine.	Hettie Le Roux	These issues have been recorded and will be addressed in the EIA process.
We (the surrounding landowners) are frustrated with Tharisa because we raise our concerns with them and they never do a thing about them. We do not trust Tharisa.	Hettie Le Roux and Hilton Bedwell	
Does Tharisa have a blasting certificate and a certificate to operate on Sunday from the DMR?	Theunis van Rensburg	
I would like to communicate with Tharisa's management.	Danie van Rensburg (146 and 101 Kafferskraal)	
Technical Related Issues		
There are a lot of smelters in the area such as IFM Ferrochrome and Xstrata's in the area. Which smelter is Tharisa considering as an alternative?	Nols de Wet	Tharisa is looking into at PGM smelters not ferrochrome smelters. Tharisa has not yet decided upon a specific PGM smelter as yet.
Why are the PGM and chrome concentrates not sold to IFM or other chrome smelters?	Johan Swanepoel	
Where will the chrome from Tharisa be sent to?		It is being sent to the various destination areas including Richard's Bay.
Is Tharisa also intending to buy PGM concentrate from other mining houses for smelting purposes?	Theunis van Rensburg	At this stage Tharisa is planning the smelting of its own concentrate.
If Tharisa decides to use an off-site smelter, does it mean that another mining company will build an additional smelter to accommodate the PGM concentrate from Tharisa?	Pieter Wolvaardt	These issues have been recorded and will be addressed in the EIA process.
Will chrome 6 be a by-product of the smelting process?		
Will there be any harmful material in the slag? We do not want the slag to contaminate the waste rocks and the tailings dam.		
Will the storage of the LPG and acids be		

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)
considered as hazardous areas?		
What are the dimensions of the smelter house?	Hilton Bedwell	The furnace will be 9m in diameter. The smelter house will be 25mx20mx16m in size. The overall area to be occupied by the smelter house and related infrastructure will be approximately 200mx250m.
Does Tharisa have an authorisation to carry out the proposed projects particularly the smelter house given that Tharisa previously informed us that Eskom couldn't supply them with the necessary electricity?	Jaco Schoeman (Kafferskraal 352)	These issues have been recorded and will be addressed in the EIA process.
Tharisa previously stated in the past that not all the properties could be purchased due to lack of funds, who is funding the smelter project?		
What are the impacts that are associated with the proposed smelter house?	Nols de Wet	This issue has been recorded and will be addressed in the EIA process.
What will be the content of the tailings?	Hilton Bedwell	The tailings consist of slurry and water. The chemistry and other details will be provided in the EIA process.
What is the chemistry of the tailings? There is a concern from the government departments that there are heavy metals in the water.		
The General Manager (GM) and the Managing Director (MD) of the mine informed us in our meeting with Tharisa that the smelter has already been built and it is currently stored in Johannesburg.		The smelter that is located in Johannesburg is Mintek's permanent testing facility not Tharisa's smelter.
How far are the soil berms from the N4?	Hettie Le Roux	Approximately 400m.
Where is the position of the tailings return water dam?	Marthinus Barnard	This was described as per the locality map that has been attached in the BID.
We would like to have the details of the smelter house so that we can have a proper understanding of how it will be operating e.g. gas cleaning technologies to be used, are they approved and what types of scrubbers will be used and how it can potentially affect the environment.	Pieter Wolvaardt, Ian Ashmole, Lappies Labuschagne	This issue has been recorded and will be addressed in the EIA process.
Blasting Related Issues		
Can we please have an independent person to monitor blasting related activities at Tharisa?	Hilton Bedwell	These comments have been recorded and will be passed on to Tharisa for their consideration.
Tharisa's blasting activities have damaged some of my structures.	Tina du Toit	
My houses have cracked due to Tharisa's blasting activities.	Christa Hattingh (238 Kafferskraal)	
How is the planned pit extension going to add to the current impacts?	Hilton Bedwell, Tina du Toit and Christa Hattingh	
Groundwater Related Issues		
Tharisa drilled a borehole of 300m deep on my property in the early phase of the mine and they have never revisited it. I would like Tharisa to test it and also include it in the groundwater monitoring system.	Jaco van Wyk	These issues have been recorded and will be addressed in the EIA process.
How will the deepening of the pits impact groundwater- dewatering process? I have a borehole that is located approximately 50m from the open pit	Marthinus Barnard	
Will there be possible contamination of the groundwater due to the deepening of the pits?		
How will the groundwater be affected by the proposed projects?	Hilton Bedwell and Pieter Wolvaardt	
My borehole's yield has decreased due to Tharisa's operations.	Hettie Le Roux	

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)
Surface Water Related Issues		
The proposed use of Buffelspoort dam water was not covered in the previous EIA. We want the proposed use to be assessed as part of this EIA process.	Ian Ashmole	This issue has been recorded and will be addressed in the EIA process. This will only apply if Tharisa agrees.
What will be the impacts of the proposed projects on surface water particularly contamination by heavy metals?	Marthinus Barnard	This issue has been recorded and will be addressed in the EIA process.
What is the planned source of water supply for the proposed projects?	Danie van Rensburg	The smelter will use approximately 10m ³ /hr of water for 24hr/yr. We will revise the water balance for the mine to indicate where the water will be sourced from.
Does 400kt plant relate to the size of the plant? What is its water consumption?	Ian Ashmole	Yes, it is the size of the plant. There are two concentrator plants at the mine which consume different quantities of water. There is a 100kt plant which consumes 150m ³ /hr of water and a 400kt plant which consumes 600m ³ /hr and we recover 75% of the water consumed (450m ³ /hr) by it.
Air Quality		
What will be the impacts of the mine's dust fall out on the surrounding land uses such as farming activities- strawberries, citrus fruits and guavas.	Nols de Wet	These issues have been recorded and will be addressed in the EIA process.
What will be the impacts of the proposed projects on the ambient air quality? Some of the people have allergies and others are asthmatic.	Marthinus Barnard	
The people who reside south of the N4 are concerned about the potential impacts of the smelter house on the air quality since the area is affected by the north westerly winds that prevail in the area.	Hilton Bedwell	
There are a lot of speeding trucks that use our dirt road causing a lot of dust in our area. We do not know whose trucks they are but could they please suppress dust and put speed humps on the road for our health, plants and safety purposes?	Jaco van Wyk	
My property was not included in the monitoring network and I would like it to be included.	Tina du Toit	
Traffic Related Issues		
There are a lot of speeding trucks that use our dirt road causing a lot of dust in our area. We do not know whose trucks they are but could they please suppress dust and put speed humps on the road for our health and safety?	Jaco van Wyk	These issues have been recorded and will be addressed in the EIA process.
Since the Madithlokwa community has been relocated, traffic flow has increased drastically so much that we are now concerned about road safety in the area.	Tina du Toit	
Tharisa uses our dirt road (located South of the N4), are there plans of up-grading it? We would like Tharisa to upgrade it.	Hettie Le Roux	
Will the volume of the trucks increase on the dirt roads due to the proposed activities?	Hilton Bedwell	
Noise Related Issues		
Why does Tharisa operate the plant for 24hrs/day when it has been indicated in the original EIA/EMP process that all activities that cause significant noise levels to the surrounding land users especially at night will	Theunis van Rensburg	These issues have been recorded and will be addressed in the EIA process.

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)	
only operate between 06h00 and 20h00?			
There is a major noise disturbance from Tharisa's operations particularly the reverse alarm from the trucks at night. How will the proposed project components add to the current situation?	Tina de Toit and Hilton Bedwell		
Socio-economic: Land Purchase and Compensation Related Issues			
What future plans does Tharisa have for Lapologang village and Retief Primary School?	Pieter Wolvaardt	These issues have been recorded and will be addressed in the EIA process.	
Is the land purchase programme by Tharisa going on?	Jaco Schoeman		
I stay at a property that is located between the mine and the N4. I am concerned that the proposed smelter house and the soil berms will be on my property. Is the Tharisa planning to buy us out?	Marieta Potgieter (127 Kafferskraal)		
What is the future of our properties if the mine does not buy us out? The mine is encroaching onto my properties and they are losing value (Kafferskraal portion 140) not the other way round.	Johan Breedt		
Is Tharisa planning on buy our properties?			
Tharisa must consider purchasing our properties.	Peter Wolvaardt (110 Kafferskraal) Theunis van Rensburg (144 Kaferskraal)		
Tharisa had promised to develop my land and they have not done anything about it to this day.	Jaco van Wyk		
We understand that Tharisa compensated some of the immediately surrounding landowners and not all of us, we would like to know who they are, where are they based and on what grounds they were compensated.	Hilton Bedwell		
Socio-economic: Land and Land-use Related Issues			
I have employed about 40 people on my farm. I have a problem with the mine because all of the best employees leave my farm and other surrounding farms for better opportunities at the mine. We cannot compete with the mine financially in terms of wages. What will be done to ensure that current and proposed activities do not affect my operation?	Jaco van Wyk		These issues have been recorded and will be addressed in the EIA process. The description of the environment takes into accounts all of the changes that have occurred over time. When considered cumulatively, the impacts described by you have long term significance because of the fact that the environment has limited capacity to absorb more impacts. This means that more care must be taken by project developers. These issues have been recorded and will be addressed in the EIA process.
Does the SLP address issues relating to how best can/will Tharisa ensure that local businesses do not suffer from the loss of their staff to the mine?	Johan Swanepoel		
Some of us have been involved in the EIA processes for a long time and we are concerned that our area is now being described as a mining and industrial area instead of a fairly rural area. Does this mean our air, visual and land use and related activities do not matter anymore and that mines can do as they please?	Pieter Wolvaardt		
Tharisa needs to revise its monitoring network. Tharisa's monitoring network does not cover our area (south of the N4) and I would like our area to be included in the network.	Theunis van Rensburg and Hilton Bedwell		
Where will the workers that will be needed for the proposed be from?	Pieter Wolvaardt		
Where will the workers that will be needed for the proposed project stay?	Hilton Bedwell		

Issue raised	By whom	Response (given by the SLR team unless stated otherwise)
Some of the workers cross our properties for access to the mine without our permission.	Tina du Toit	
We are also concerned about our safety and security in the area.	Tina du Toit and Hilton Bedwell	
Our internet connections are repeatedly interrupted due to the operations of the surrounding mines.	Hettie Le Roux	
We are concerned that the proposed projects might deplete the bees in the area that we need for pollution process that is necessary for farming vegetables and fruits.	Hilton Bedwell	
How are piggery farming activities going to be affected by the proposed projects?	Johan van Heerden	
Are all the servitudes that existed before the operation of Tharisa mine started operating still in place and functional?	Hilton Bedwell	
There must be a buffer zone area in which all the properties that fall within it must be bought by the mine. The impacts are unbearable.		
Tharisa's activities are very close to Aquarius Mine. Are these activities not going to be in conflict with Aquarius's mining activities?	Lappies Labuschagne	We do not have sufficient information to comment on surrounding mines' activities. However, cumulative impacts will be considered where possible.
What is happening at Aquarius (mining activities)?		

4. THE WAY FORWARD

Brandon Stobart explained that all the raised issues have been captured and will be addressed in the EIA process; Additional comments can be sent to SLR, be left at Tharisa Offices (with Thulani Ntshanga) for SLR's collection or be sent via email, fax and/or post;

Copies of the scoping and EIA/EMP amendments reports and both English and Setswana summaries will be made available for public review and comments. These reports will include the minutes of the meetings;

All the registered IAPs who have provided SLR with their postal addresses and e-mail addresses will receive copies of the summaries which will inform them where full scoping and EIA/EMP reports can be reviewed;

All the registered IAPs who have provided SLR with their postal addresses and e-mail addresses will receive notification of the record of decision; and

Community members that do not have email or postal addresses will be engaged through community leadership structures.

5. CLOSE


The meeting was closed by Brandon Stobart.

APPENDIX 1: ATTENDANCE REGISTER

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Brandon Stobart	SLR (Africa)	P O Box 1596 Cramerview 2060	SLR (Africa)	bstobart@slrconsulting.com
Stella Moeketse	SLR (Africa)	P O Box 1596 Cramerview 2060	011 467 0945	smoeketse@slrconsulting.com
Suan Mulder	SLR (Africa)	P O Box 1596 Cramerview 2060	011 467 0945	smoulder@slrconsulting.com
David Mitchell	Tharisa Mine	Postnet Suite 473, Private Bag X51, Bryanston, 2021	082 564 1957	dmitchel@tharisa.com
Thulani Ntshanga	Tharisa Mine	Postnet Suite 473, Private Bag X51, Bryanston, 2021	083 237 6040	tnntshanga@tharisa.com
Peter Chennells	Tharisa Mine	Postnet Suite 473, Private Bag X51, Bryanston, 2021	082 317 3617	pchennells@tharisa.com
Derrick Baker	Tharisa Mine	Postnet Suite 473, Private Bag X51, Bryanston, 2021	083 455 7044	dbaker@tharisa.com
Hilton Bedwell	Surrounding landowner	P O Box 841 Mooiooi	072 510 7847	barendclark@gmail.com
Johan van Heerden	Surrounding landowner	P O Box 3942 Brits 0250	082 337 8429	admin@f3society.co.za
Rona Du Plessis	Landowner	P O Box 5080 Rustenburg 0300	073 095 8055	billionsigns@gmail.com
Joseph Cronje	Buffelspoort Slaghuis	P O Box 4777 Marikana 0284	014 572 3033	-
Derek Baum	FEDHASA North West	-	083 772 2878	derek@sparklingwaters.co.za
Jaco Schoeman	Landowner, Portion 352 Kafferskraal	P O Box 231 Kroondal 0350	083 260 1816	pjschoeman@gmail.com jschoeman@xstrata.co.za
M.J. Barnard	Landowner	P O Box 28 Marikana 0284	072 018 8123	-
R.S. Mellett	AQP Environmental Group Consultant	P O Box 624 Kroondal 0350	079 494 7771	robvyn.mellet@aquarius.co.za
Marita Potgieter	Landowner	P O Box 187 Marikana 0284	083 626 7577	maritaprelec@netactive.co.za
Christa Hattingh	Landowner	P O Box 2439 Rustenburg 0300	082 785 7514	cmhattingh@mweb.co.za

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Danië van Rensburg	Landowner	P O Box 255 Kroondal 0350	082 464 1051	dvanrensburg.co.za
Jaco van Wyk	Landowner	P O Box 1847 Mooiwooi 0325	072 256 0715 082 494 7241	w.a.j.van.wyk@gmail.com pc@gwisa.com
Theunis van Rensburg	Landowner	P O Box 3 Marikana 0284	082 785 7521	theunis@multrader.co.za
Ian Ashmole	Buffelspoort Valley Conservancy	Postnet 4642 Private Bag 82323 Rustenburg 0300	083 327 5335	ian@minus273.co.za
Johan Swanepoel	Consultant Thabo Gaelobak	-	079 519 2195	johan.ingameka@gmail.com
Nols de Wet	Landowner RLK Farmer BVC	P O Box 637 Kroondal 0350	083 379 6889	nols.dewet@gmail.com nols@overvaal.co.za
Rudolph Labuschagne	Landowner	P O Box 283 Marikana 0284	084 250 5118	rjlabuschagne@ra.rockwell.com
P Wolvaardt	Landowner	153A Kruger Street	084 445 5224	pwolvaardt@xstrata.co.za
Johan Breedt	Landowner	P O Box 956 Alberton	082 854 3332	stoeka@vodamail.co.za
Hilton Bedwel	Landowner	P O Box 841 Mooiwooi 0325	072 510 7847	-
Tina Du Toit	Landowner	P O Box 1770 Mooiwooi 0325	076 867 8074	-
T Le Roux	Landowner	P O Box 4850 Marikana 0284	083 579 6866	nettie.l@gwisa.com
O van Rensburg	Landowner	P O Box 255 Kroondal 0350	-	-
Johan J. van Niederhuys	Landowner	P O Box 205 Babbenville	086 515 4046 083 257 6016	sealclem@telkomsa.net


APPENDIX 2: PRESENTATION



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THARISA MINERALS (PTY) LTD
EIA/EMP AMENDMENT I
 The proposed construction and operation of additional surface infrastructure, changes to the mine layout and to the operation.
 16/Feb/2012


AGENDA

- Welcome and opening
- Registration
- Project overview (SLR and Tharisa)
- Environmental process overview
- Questions
- Close

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PURPOSE OF TODAY'S MEETING

- Understand the proposed project;
- Understand the environmental process; and
- Raise and record environmental issues

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PROJECT OVERVIEW


- Construction and operation of the smelter house: as an alternative to utilising existing smelters
- Construction and operation of the chrome sand drying plant
- Changes to the characteristics of the tailings storage facilities (TSF)
- Changes to the general layout of the mine:
 - Increase the high wall from 120- 180m deep (increases the mine operation by 5-6 years);
 - topsoil dump on the western side;
 - realignment and reshaping of the waste rock dumps;
 - two run of mine (ROM) pads on each side of the mine;
 - changes in the design and size of the TSF
 - creation and disposal of the slag from the smelting process;
 - change of the location and height of the soil berms (10m- 25m) and
 - overnight parking area for the trucks (300m-50m)
- Extension of the life of the mine from 12 to 16 years

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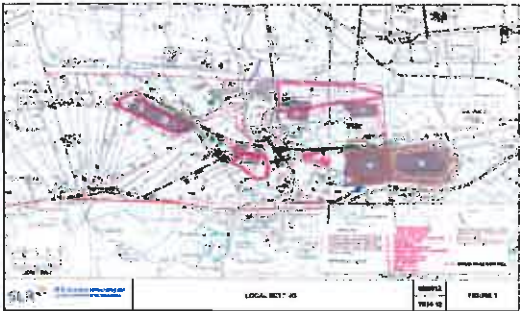
PROJECT OVERVIEW


Motivation:

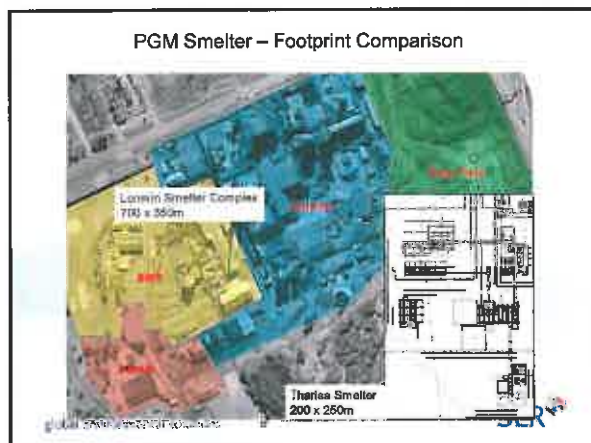
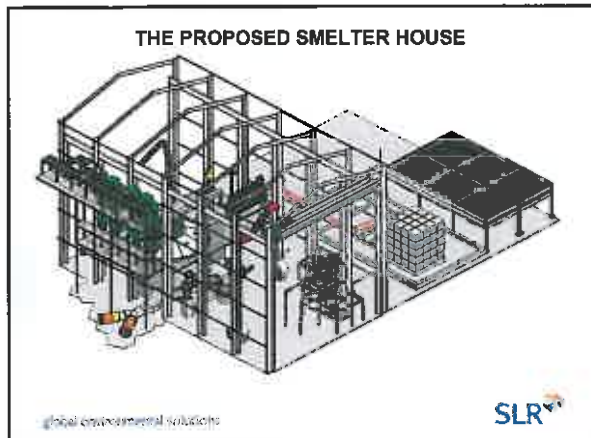
- The motivation for the smelter house and associated infrastructure is economic in nature and will enable Tharisa to recover additional platinum group metals (PGM's) thereby increasing the PGM and chrome value of its products.
- The purpose of the chrome sand drying plant is to produce higher-value chrome sand suitable for use as foundry sand.
- The changes in the tailings character and design will optimise tailings disposal via the installation of toe drains on the "inside toe of the TSF containment walls". These drains will draw down the phreatic surface of the tailings dam thus making it more stable, helping the tailings consolidate and improve the placed density and reducing the hydrostatic pressures acting on the containment walls.
- The trucks parking area and the gravel road will allow the trucks to be parked at the mine at night.
- The other changes to the general surface infrastructure will optimise the available space at the mine

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LOCALITY MAP



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ENVIRONMENTAL PROCESS

What?

- Assessment of the potential impacts of the proposed project on the environment
- Environment definition
- Implementing appropriate management measures

Why?

- Legal requirement and it is the right thing to do.

Different stages?

- Scoping phase (we are here)
- Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) phase

How?

- Participation of interested and affected parties.
- Reporting via the initial BID, the scoping report and specialist studies where required;
- The EIA/EMP report; and
- Decision making.

SLR

ENVIRONMENTAL PROCESS

Who makes the decisions:

- Department of Mineral Resources (DMR);
- Department of Economic Development, Environment and Tourism (DEDET);
- National Department of Environmental Affairs (DEA);
- Department of Water Affairs (DWA);
- Department of Agriculture (DA);
- Department of Rural Development and Land Reform (DRDLR);
- South African Heritage Resource Agency (SAHRA); and
- Relevant district and local municipalities

SLR

EXISTING ENVIRONMENT

All the proposed activities will take place on the already disturbed areas.

- **Climate:** Tharisa is situated in the Highveld Climatic Zone which is characterised by warm to mild with a typical summer rainfall climate, cool and dry Winters and one and July as the coldest months. Winds are generally light and blow predominantly from the north-west, frost and occasional hail storm.
- **Topography:** is relatively flat with a gentle slope down to the north and has an elevation of approximately 1200meters above mean sea level (mamsl) with Megaliesberg Mountain Peaks rising up to 1400mamsl south of Tharisa. It has been changed by current mining activities to the north and west of Tharisa. The perennial Sterkspruit and the non-perennial tributary of the Elandsdriftspruit run in close proximity to the mine property.
- **Land Use:** is a mixture of farming, mining, residential, small business and general community activities. Most land on the mine property has stable capability. Irrigation water is required for cultivation and is available from the Buffelspoort Dam by means of the Buffelspoort Government water Scheme.
- **Visual:** Tharisa Mine is visible from most of the communities and the road network connecting the communities. The aesthetic quality of the general area has already been extensively transformed by existing mining and agricultural operations in the area.

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EXISTING ENVIRONMENT

- **Air Quality:** The ambient air quality is significantly influenced by various sources including: mines and industries, biomass burning, fossil fuel burning, farming, dust generated on unpaved roads, vehicle exhaust emissions.
- **Noise:** Current noise levels in and around the mine property are representative of a combination of rural, mining and industrial activities. Existing significant noise sources include: mining activities, mechanised farming activities (for example tractors), and road traffic.
- **Biodiversity:** Tharisa Mine is located within the savannah biome, characterised by open Acacia karoo woodlands, which occur in valleys and slightly undulating plains, and some lowland hills. This vegetation unit is of significance because it is listed as endangered mainly due to severe impacts from transformation through cultivation and urbanisation. There are woody shrubs, succulents and grasses. Animals include scrub hare, porcupines, mongooses. Birds include laughing doves, black-headed heron and Cape Turtle Dove.
- **Groundwater:** is typically between 10m and 20m below ground level and is generally influenced by the topography in the area. In general, the flow is from the higher ground in the south to lower lying areas in the north and towards water courses which occur in lower lying areas. Ground water is generally of good quality and can either be classified as ideal or good. Groundwater is used for domestic and agricultural (livestock and irrigation) purposes.

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EXISTING ENVIRONMENT

- **Surface water:** Tharisa Mine is located within the upper reaches of the A21K quaternary catchment, which falls within the Lower Crocodile Secondary catchment and the Crocodile West and Marico Water Management Area. There is perennial Sterkspruit which flows from the Buffelspoort Dam, south of the N4 in a northerly direction through the centre of the mine area and two unnamed non-perennial tributaries of the Brakespruit, an unnamed non-perennial tributary of the Mareilwane and an unnamed non-perennial tributary of the Elandsdriftspruit. The quality of water is generally an ideal for domestic purposes such as washing, bathing, livestock, watering and for agricultural purposes.
- **Heritage:** the most important heritage resources discovered on the mine were stone walled settlement, graveyards, a historical village and homestead mining heritage remains, isolated and randomly scattered stone tools, historical houses and outdated and discarded agricultural implements. The heritage resources in the broader area are expected to have a potential for the following occurrences: historical buildings, stone walls and graveyards.
- **Socio-Economic:** Tharisa Mine is located in both Rustenburg and Madibeng Local Municipalities. Education levels in the area are low, unemployment rates are high, the establishment of the un-serviced settlements is increasing. Mining and related industries are the major formal employment providers.

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QUESTIONS

- **Groundwater:** contamination, dewatering, water use?
- **Surface water:** contamination, storm water management?
- **Air Quality:** air pollution?
- **Noise:** noise nuisance?
- **Visual:** negative impact?
- **Soils:** contamination and erosion?
- **Transport:** increase in traffic?
- **Land use:** negative and positive impacts?
- **Socio-economic:** negative and positive impacts?

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WAY FORWARD

- **Scoping Phase:**
 - Circulation of the scoping report (English) (March/April):
 - Retief Primary School
 - Marikana Community Hall
 - Madikholwa Community Hall
 - Rustenburg Library
 - Hillside BARB
 - Tharisa Mine
 - SLR Offices
 - Summary (English/ Setswana) per hand delivery to community representatives, email and post.
 - Regulatory authorities and IAPs: 30-40 days to submit comments.
- **EIA/EMP Phase**
 - Circulation and review the same as for scoping report.
- **Submit record of decisions to all the registered IAPs**

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THANK YOU!

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**THARISA MINERALS (PTY) LTD
EIA/EMP AMENDMENT I**

GENERAL PUBLIC SCOPING MEETING

DATE	16h30, 16 February 2012
VENUE:	Retief Primary School
PROJECT:	Tharisa Minerals EMP Amendment I
PROJECT NUMBER:	T014-12/ 710.20002.00012
PURPOSE:	The purpose of the scoping meeting was to provide information on: <ul style="list-style-type: none">• proposed projects;• environmental authorisation process;• raise and record environmental issues; and• identify possible specialist investigations
ATTENDANCE:	An attendance register is presented in Appendix 1.

1. OPEN AND INTRODUCTION

The meeting was opened by Brandon Stobart from SLR Consulting (Africa) (Pty) Ltd (SLR). Brandon Stobart introduced Stella Moeketse and Suan Mulder from SLR, as well as Dave Mitchell, Thulani Ntshanga and Peter Chennells from Tharisa Minerals (Pty) Ltd (Tharisa).

2. PRESENTATIONS

Brandon Stobart gave an outline of the environmental authorisation process being followed as included in the presentation. As part of the information sharing process, David Mitchell gave an outline of the proposed projects while Stella Moeketse translated into Setswana. A copy of the presentation is attached in Appendix 2.

3. DISCUSSION

All the issues that were raised in the meeting have been recorded in Table 1 below. Where a response was provided this has also been included in the table. Given the nature of this meeting, not all questions could be answered during the meeting.

All the comments have been recorded and will be addressed in the environmental impact assessment (EIA) process.

TABLE 1: RECORD OF ISSUES RAISED AND RESPONSES GIVEN

Issue raised	By whom	Response (given by the project team unless stated otherwise)
Process Related Issues		
I reserve the right to comment to the Scoping Report. My comments will be supplied in writing.	Marius Botha	This comment has been noted.
Once the project is approved by the DMR, how will Tharisa communicate the Record of Decision?	Alex Salang	These issues have been recorded and will be addressed in the EIA process.
The stakeholders need regular interaction with Tharisa.		
How will the monitoring results be shared?		
Please provide transport, or select a venue that is close to the local communities such as Madithlokwa for meetings.	Appearance Ndlovu (Ward Councillor)	This comment has been noted and will be used for future reference.
I am located on Portion 3of the farm Kafferskraal near the Tailings Storage Facility (TSF), yet I have not been consulted with yet. Why have we not been consulted yet?	Jan Coetzee	SLR is still in the initial phase of the EMP Amendment process and has just commenced with the PPP.
We require larger maps please.	W I Engelbrecht	SLR will provide In the reports in A3 so that everything can be visible to the readers.
Technical Related Issues		
How far is the proposed smelter house from the Marikana Road?	Hilton Bedwell	Approximately 300 – 400m.
How far is the large waste rock that is located on the eastern side of the mine from the settlement?	Calvin Thutlwane	Approximately 100m.
Why is the large waste rock dump so close to the existing community?	Mavis Vilame	These comments have been recorded and will be addressed in the EIA process.
What is the distance by law that is allowed from the house and the Western Waste Rock Dump?	Mr R and/or P C van der Westhuizen	
Will the Tailings Dump and Slag Dump be lined?	Hilton Bedwell	
Blasting Related Issues		
There is blasting that takes place between 3 and 4pm that causes the houses to shake. Will Tharisa take responsibility and fix the damage that is created by the blasting?	Mr R and/or Mr P C van der Westhuizen	These issues have been recorded and will be passed on to Tharisa for their consideration.
There is no trust with regards to the blasting issues. People move out of their houses to the road during blasting. There is no regard for people's discomfort. Before Tharisa continues, they need to fix what has been damaged.	Calvin Thutlwane	
Due to the blasting activities, the borehole pumps do not last and they are now pumping sand. What will the	Peter van Rensburg	

Issue raised	By whom	Response (given by the project team unless stated otherwise)
mine do about this? We have raised issue with Tharisa on numerous occasions, how can we believe that Tharisa is going to address the matter?		
Our house is cracked due to Tharisa's current operations. How will the proposed increase of the life of the mine add to this?	Monica Moleba	
Biodiversity Related Issues		
The people from Madithlokwa cut down our trees for domestic purposes because they have no trees, bushes or grass in their resentment village	A Botha	This comment has been recorded and will be addressed in the EIA process.
Air Quality Related Issues		
What will be the impact of the TSF on the air quality?	Joseph Nkoshosho	These comments have been recorded and will be addressed in the EIA process.
How will the impact be reduced?		
The air is polluted by the mining activities, how will the proposed project components add to the current situation?	Monica Moleba	
We are concerned about the dust that will be generated from the dumping of the waste rock.	Calvin Thutlwane	
The location of the proposed smelter plant will be right on our doorstep. I am concerned about the Sulphuric acid and Sulphur Dioxide that will negatively impact our health.	A van Rensburg	
Traffic and Transport Related Issues		
Road safety issues have been previously raised, the specific details of the truck owners/users were submitted to Tharisa and nothing has happened to date. I do not trust Tharisa.	Mr R and/or Mr P C van der Westhuizen	These comments have been recorded and will be addressed in the EIA process.
Will Tharisa use the road with the bridge over the N4 to access the tailings dam?	Jan Coetzee	
We do not trust Tharisa. What will happen in the future regarding traffic related issues relating to the proposed projects?	Jeanetta Seleka and Alex Salang	
I am concerned about the fact that the access road from Marikana to Retief is utilised by trucks daily and the dust suppression is not effective.		
Children and villagers walk along this road and they are faced with the dust and safety and security issues.		
The maintenance and upgrading of the road is not happening on a regular basis.	Mr R and/or Mr P C van der Westhuizen	

Issue raised	By whom	Response (given by the project team unless stated otherwise)
Noise Related Issues		
The noise from the trucks dumping rock and specifically the reverse hooters is a disturbance at night.	Peter van Rensburg	These comments have been recorded and will be passed on to Tharisa for their consideration.
The night time noise of the crushers and the use of the Marikana/Retief road are disturbing.	Mr R and/or Mr P C van der Westhuizen	
We are concerned about the noise that will be generated from the dumping of the waste rock.	Calvin Thutlwane	
I would like the noise impacts of the proposed project components to be assessed in this EIA process.	Hilton Bedwell	
Plant emergency sirens noise must please be included in the noise study.		
The noise of the hooters has been addressed by Tharisa on the eastern side of the property.		
Heritage and Archaeology Related Issues		
The heritage of the churches that are located on the eastern side of the mine has been neglected.	Calvin Thutlwane	These comments have been recorded and will be addressed in the EIA process.
How will the proposed project activities impact on these resources?		
Socio-economic, Employment and Social Labour Plan Related Issues		
Tharisa needs to focus more on job creation programmes and the social impact of the proposed projects and not only focus on the impacts on the biophysical environment.	Mavis Vilame	These comments have been recorded and will be addressed in the EIA process.
An employment strategy is required.	Sebenzile	
What is Tharisa's recruitment strategy?	Appearance Ndlovu, Ward Councillor	
Will MDM be bringing in Civcon employees?		
With regards to small business development, vender procurement is required to benefit the locals.		
With the start of the smelter plant, Tharisa should start with learnerships to guarantee employment in the future.		
Small businesses are not flourishing due to the existence of Tharisa Mine.	Calvin Thutlwane	
There is an influx of contractors, how will Tharisa address the migration?	Alex Salang	
Why is the employment of local people only for temporary jobs and not permanent?	David	
Socio-economic: Land Purchase and Compensation Related Issues		
As a landowner of a farm near Lepologang, on which portions will the waste rock dump be located?	Hennie Potgieter	The waste rock dumps will be located on the following portions of the farm Kafferkraal: 90, 91, 149, 330, 329, 243, 335, 336, 368, 22, 23, 166, 182, 217, 108,

Issue raised	By whom	Response (given by the project team unless stated otherwise)
		3, 2, 53, 83, 297, 331 and 356 (Western side of the mine) and 285, 282, 145, 256 and 306 (Eastern side of the mine)
Will this land be purchased by Tharisa?		These comments have been recorded and will be addressed in the EIA process.
There is no certainty on the future of these matters, and as a result one cannot develop this land.		
Can Tharisa take corporate responsibility and confirm that I cannot continue with my development?	A Botha	
Why did Tharisa not purchase my property? It is situated within the mining right area.	A van Rensburg	
Why has Tharisa not bought me out?	Mr R and/or P C van der Westhuizen	
Portion 135 of Kafferskraal farm was donated by the landowner to the community to build a school. Tharisa then bought this land without consulting with all the people. Who did Tharisa consult because no one knows anything about this transaction?	Calvin Thutlwane	
Socio-economic: Land and Land-use Related Issues		
Tharisa will be 50m away from my place, what will the impacts be?	Jan Coetzee	These comments have been recorded and will be addressed in the EIA process.
I am based on Plot 23, which is close to Lapologang, will I be affected by the proposed project?	Malo Lazarus	
The trespassing of individuals onto our property is a concern. Tharisa is not taking responsibility for security and safety.	Mr R and/or Mr P C van der Westhuizen	
Socio-economic: Resettlement Related Issues		
There are no clinics and amenities in Maditlhokwa.	Samuel Modise	These comments have been recorded and will be addressed in the EIA process.
The toilets at Maditlhokwa are built on slabs on top of the soil. Water enters the toilet and over flows into the community, creating a health and sanitation issue	Jeanette Sekane	
What will happen to the local residents if they suffer from permanent hearing loss?		
In the Maditlhokwa community, the boreholes and toilets are too close to each other.	Thomas Makaringe	
The Maditlhokwa shacks leak when it rains.	Phineas	
There is increased crime in Maditlhokwa since Tharisa started operating.	Calvin Thutlwane	
I was relocated and the material for my shack was lost.	Sylvester M	

Issue raised	By whom	Response (given by the project team unless stated otherwise)
I pay rent to Tharisa for my house in Silver City, but there are no facilities.	Matsego	
How will Madithlokwa community be affected by the proposed projects?	A Botha	
I am concerned that service delivery in Madithokwa specifically the sewage system and its impact on the river.		
Will the Rustenburg Local Municipality maintain the current living conditions? What will happen if they don't?		
The water tanks that are provided in Madithokwa sometimes run dry and dust settles in them. Is the water from such tanks safe to drink?	Samuel Modise	
The new Madithlokwa township is located on barren land, with no trees or vegetation. We need Tharisa to provide trees and grass for this community.	Alex Salang	
A separate meeting with Tharisa needs to be arranged to discuss amenities, and the DMR and other government departments are required to be at that meeting.	Appearance Ndlovu (Ward Councillor)	
The construction of new houses and the relocation project and of the Madiklokwe community involved only certain individuals as opposed to the whole community.		
I would like to engage with Tharisa as to their reasons of not including the community?	Mavis Vilame	

4. THE WAY FORWARD

Brandon Stobart explained that all the raised issues have been captured and will be addressed in the EIA process;

Additional comments can be sent to SLR, be left at Tharisa Offices (with Thulani Ntshanga) for SLR's collection or be sent via email, fax and/or post;

Copies of the scoping and EIA/EMP amendments reports and both English and Setswana summaries will be made available for public review and comments. These reports will include the minutes of the meetings;

All the registered IAPs who have provided SLR with their postal addresses and e-mail addresses will receive copies of the summaries which will inform them where full scoping and EIA/EMP reports can be reviewed;

All the registered IAPs who have provided SLR with their postal addresses and e-mail addresses will receive notification of the record of decision; and

Community members that do not have email or postal addresses will be engaged through community leadership structures.

5. CLOSE

The meeting was closed by Brandon Stobart.



APPENDIX 1: ATTENDANCE REGISTER

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Stella Moeketse	SLR (Africa)	P O Box 1596 Cramerview 2060	011 467 0945	smoeketse@slrconsulting.com
Suan Mulder	SLR (Africa)	P O Box 1596 Cramerview 2060	011 467 0945	smulder@slrconsulting.com
Brandon Stobart	SLR (Africa)	P O Box 1596 Cramerview 2060	011 467 0945	bstobart@slrconsulting.com
David Mitchell	Tharisa Minerals	Postnet Suite 473 Private Bag X51 Bryanston 2012	082 564 1957	dmitchell@tharisa.com
Thulani Ntsanga	Tharisa Minerals		083 237 6040	tntshanga@tharisa.com
Peter Chennells	Tharisa Minerals			pchennells@tharisa.com
Jackson Phiri		P O Box 688 Marikana 0284	073 338 8482	
Stokie Setlhalogie		P O Box 116 Madihlhokwa 0284	083 436 2899	stokies@gmail.com
Mavis Maphanga		-	078 946 6287	
Letla Motau	House No 77 Tsakani	P O Box 741 Marikana 0284	074 273 7317	letta@cellc.co.za
Pulane Shasha	House No 40 Tsakani	P O Box 741 Marikana 0284	076 140 1074	pulane@vodacom.co.za
Idis Rozani	House No 525 Tsakani	-	-	
Maria Tlou	Lopgangwilla House No 64	-	082 490 3409	
Lydia Masina	Madihlhokwa House No 32	-	079 834 6265	
Sylvester M	Madihlhokwa House No 31	-	073 254 1548	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Moffat Jonas	Madiihokwa House No 22B	-	072 510 3644	
Johanna Selike		-	073 111 2565	
A van Rensburg	Landowner	P O Box 73 Marikana 0284	082 964 7011	
E van Rensburg		P O Box 73 Marikana 0284	082 964 7011	
H Grobler		P O Box 17 Marikana 0284	083 726 7874	
H van Rensburg	Landowner	P O Box 228 Kroondal 0284	083 325 3177	
P van Rensburg	Business Owner	P O Box 228 Kroondal 0284	083 325 0865	greensys@global.co.za
H Malaw		P O Box 139 Kroondal 0284	082 883 6551	wilkinsonmalaw@vodamail.co.za
Victor Tsagae	Madiihokwa	P O Box 98 Marikand 0284	084 225 9936	
Nataniel Limango		-	072 755 0846	
David Nkuna		P O Box 511 Marikana 0284	072 050 0174 014 571 5041	david.nkuna@lonmin.com
Ben Horak	Buffelspoort Dam	P O Box 2210 Mooinooi	084 746 5757	horakben@gmail.com
Ria Horak	Buffelspoort Dam	P O Box 2210 Mooinooi	084 746 5757	horakben@gmail.com
Elsa Steyn	Landowner	P O Box 73130 Lynnwood Ridge 0040	011 083 6686	elsa@remiq.co.za
M.P Pretorius	Landowner	P O Box 146 Mooinooi 0325	082 779 4877	wmticoetzee@gmail.com
Jan Coetzee	Landowner	P O Box 146 Mooinooi 0325	082 764 4994	shangods@webmail.co.za

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
D.S Mbale	Interested Party	P O Box 472 Marikana 0284	072 277 0957	
Jono Mthonbeni	Mmadihlokwa Village	P O Box 153 Marikana 0284	-	
Mavis Vilame	Lapologang Village	P O Box 605 Marikana 0284	079 984 1895	
Jonas Tlou	Lapologang Village	P O Box 715 Marikana 0284	082 666 0540	
Malesa Eddy	Maditlhokwa	P O Box 98 Marikana 0284	076 386 1416	
Elizabeth Thehie	Maditlhokwa	-	071 401 5891	
Bright T Phiri	Maditlhokwa	P O Box 688 Marikana 0284	073 700 0572	
Samoltimlo Bentlele	Maditlhokwa	P O Box 98 Marikana 0284	-	
Dope Madabola	Maditlhokwa	P O Box 98 Marikana 0284	-	
Joseph Nkoshosho	Marikana	P O Box 159 Marikana 0284	071 442 0488	
Danith Mogale	Maditlhokwa	P O Box 02 Marikana 0284	082 592 2618	
Modise Samuel	Maditlhokwa	-	078 672 3303	
Arone Mokheleli	Maditlhokwa	-	071 808 7925	
Peter M		P O Box X222 Mooinooi 0325	-	
Koledi J	Maditlhokwa	P O Box 98 Marikana 0284	072 052 7668	
Joseph Tatse	Marikana	-	073 144 2739	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Daniel Rampa	Marikana	P O Box X301 Marikana 0284	031 285 0194	
David Molansi	Marikana	P O Box 425 Marikana 0284	083 719 3922	
Daniel Rathloeni	Marikana	-	073 915 9183	
Itumeleng Mosesilane	Maditlhokwa	P O Box 98 Marikana 0284	078 186 7946	
Dirang Khunou	Marikana	569 Marikana West	073 067 5527 076 378 7231	dirang.khunou@lonmin.com
David Mokotedi	Marikana	785 Marikana West	078 685 6783 079 153 8939	
Fanie Khumalo	Marikana	P O Box 98 Marikana 0284	084 843 2089	
Frank Mudau	Marikana	P O Box 99 Marikana 0284	072 170 3121	
Johannes Swarts	Marikana	P O Box 153 Maditlhokwa	078 147 3597	
Koos Tau	Marikana	P O Box 153 Maditlhokwa	-	
Jacob Mothobi	Marikana	P O Box 153 Maditlhokwa	-	
Gert Morweng	Marikana	P O Box 98 Marikana 0284	071 044 9201	
Virginia Khutsatalo Moagi		P O Box 1321 Phokeng 0234	078 148 7230	khutsatalo2@webmail.co.za
Regina Mokgabi	Maditlhokwa	P O Box 3 Marikana 0284	076 015 4603	
Sarah Kaledi	Maditlhokwa	P O Box 3 Marikana 0284	-	
Ruth Bhelane	Maditlhokwa	P O Box 3 Marikana 0284	072 460 7708	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Lyda Lebelo	Lapologang	P O Box 98 Marikana 0284	-	
Julia Mabasa	Madithokwa	P O Box 98 Marikana 0284	-	
Maria Marothodi	Madithokwa	-	078 555 3466	
J. Marothodi	Madithokwa	-	078 569 0317	
Martha Shoko	Madithokwa	-	073 637 2470	
Jo Florah		P O Box 98 Marikana 0284	079 179 2333	
Dorha Moswau		P O Box 98 Marikana 0284	076 268 2036	
Gert Morweng	Madithokwa	P O Box 98 Marikana 0284	071 044 9201	
Ephraim Moswau	Madithokwa	P O Box 98 Marikana 0284	-	
Jethro Maano	Madithokwa	-	-	
Vivian Blayi	Madithokwa	P O Box 98 Marikana 0284	072 335 3937	
Maria Masega		P O Box 98 Marikana 0284	-	
Nicholas Moja		P O Box 98 Marikana 0284	-	
Simon Esterhuizen		P O Box 98 Marikana 0284	071 336 9189	
Mmabatho Tshdane		P O Box 98 Marikana 0284	071 718 2781	
Jan Tshenepe		P O Box 98 Marikana 0284	082 707 3841	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Jim Swarts		P O Box 98 Marikana 0284	076 917 0231	
Philimone Thontwano		P O Box 98 Marikana 0284	076 626 9076	
Thomas Motshelhi	Tsakane	P O Box X222 Marikana 0284	076 311 5842	
Lettai Khumalo	Lapogang	P O Box 98 Marikana 0284	072 291 2960	
David Sentwedi	Maditlhokwa	-	076 466 2673	
Letta Motau	Tsakane	P O Box 741 Marikana 0284	074 273 7317	
Thapelo Ncheche	Tsakane	P O Box 741 Marikana 0284	083 245 0234	
Richard Patton	Landowner	P O Box 1043 Mooinooi 0325	082 775 6697 014 574 3609	rpatton@mweb.co.za
Mtatha Carrol	Tsakane	P O Box 98 Marikana 0284	075 189 6679	
U Ndlovu	Tsakane Ward Councillor	P O Box 153 Marikana 0284	072 275 2162	
Hendrik Potgieter	Landowner, Solidarity Rep	P O Box 4887 Buffelspoort	083 287 5316 083 374 0301	hendrikpotgieter@murrob.com
Johannah Maphosa	Tsakane	-	076 195 9607	
W M Coetzee	Landowner	P O Box 4870 Brits 0250	082 779 4877	wmtjcoetzee@gmail.com
P C van der Westhuizen	Landowner	P O Box 4637 Marikana 0284	082 573 5360	
R van der Westhuizen	Landowner	P O Box 4637 Marikana 0284	072 333 4747	
W I Engelbrecht	Landowner	P O Box 5013 Marikana 0284	082 463 8369	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
A Botha	Neighbour	P O Box 680 Marikana 0284	083 656 7527 014 572 3355	addiebotha@gmail.com
Marius Botha	Landowner	P O Box 73130 Lynnwood Ridge 0040	079 149 2620	mariusbotha@remig.co.za
C Bosch	Landowner	P O Box 73130 Lynnwood Ridge 0040	082 442 7432	chris@remig.co.za
Lena Kgosha	Mmadithokwa	-	-	
Kodibone Mogale	Tsakane	-	071 944 5856	
Pinky	Mmadithokwa	-	072 503 9373	
Israel Kikanyani	Mmadithokwa	-	076 595 9026	
William Bushule	Mmadithokwa	-	078 081 3007	
Lorraine Patton	Landowner	P O Box 1043 Mooinooi 0395	082 571 6965	pottersreach@mweb.co.za
Rinda Lombard		P O Box 244 Marikana 0284	072 690 3221	rindalombard@yahoo.com
Octavia Mabophe	Tsakane	P O Box 266 Marikana 0284	076 555 7758	
Phineas Maluleke	Thabaneng	H06 Marikana	082 504 4415	
Tjeho Ncheche	Lapologang	605 Marikana	073 755 6399	tjehoncheche@yahoo.com
Hora Chawe	Madithokwa	House No 64 Marikana	078 081 3007	
Nelly Chawe	Madithokwa	House No 64 Marikana	073 691 2536	48364762@mylife.unisa.co.za
Dawie Ditire	Madithokwa	-	079 215 9262	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
HD Bedweli	Landowner	P O Box 841 Mooinooi	072 510 7847	
G Pretorius	Landowner	P O Box 244 Marikana 0284	082 868 8322	
Masego Maphane	Maditlhokwa	-	079 109 1915	
Skappie Salang	Tsakani	-	076 383 7035	
Calvin Thutlwane	Maditlhokwa	P O Box 4822 Marikana 0284	083 884 0004	
Jackson Phiri		P O Box 688 Marikana 0284	-	
Victor	Maditlhokwa	-	084 225 9956	
Alice Mokwena	Lapologang	P O Box 605 Marikana 0284	084 820 6056	
Letty Mlongwane	Maditlhokwa	P O Box 98 Marikana 0284	076 342 4886	
Lerato Molusi		-	067 696 0710	
Tsakami	Tsakani	-	082 690 8873	
Ruth Molusi		-	076 703 6439	
Thomas Makaringe		-	076 397 1855	
Sello Solomn Lebea		House 234	072 170 4960	
Elizabeth Mocketwa		House 234	072 170 4960	
Flora Thobela		House 16	073 429 0685	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Jeanetta Seleka		House 33	073 295 1557	
Elda Dipodi		House A83	076 126 1369	
Pulane Shasha		House 40	076 140 1074	
Dawid		House A37	073 911 9707	
Margaret Mororo		House 128	-	
Moses Sithole		-	071 418 7473	
Alex Salang	Maditlhokwa Community Member	P O Box 715 Marikana 0284	079 979 6126	alexsalang@gmail.com
Helen Botilo	Maditlhokwa	P O Box 4656 Marikana 0284	084 286 9653	
Batshegi-Mmama	Maditlhokwa	P O Box 7 Marikana 0284	079 653 5586	
Martha Dikgope	Maditlhokwa	-	073 101 0912	
Malet Mmatsheko	Maditlhokwa	-	073 374 1421	
Stokia Setlhalogie	Maditlhokwa	-	083 436 2899	stokies@gmail.co.za
Virginia Swarts	Maditlhokwa	-	079 377 3524	
Feitjie Kgengwe	Maditlhokwa	-	071 774 9404	
Monicca Moleba	Marika Kaffeess	P O Box 4734 Marikana 0284	072 973 9433	
Bonolo Tshabile		P O Box 98 Marikana 0284	083 343 0981	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Daphney Muuleni		P O Box 673 Marikana 0284	078 643 3983	
Virginia Mpeta		P O Box 25 Marikana 0284	073 089 3216	
Mavis Ncube		P O Box 98 Marikana 0284	076 244 5485 081 252 5058	
Ella Masina		P O Box 98 Marikana 0284	079 257 8941	
Lizzy Zwide		P O Box 7460 Rustenburg 0284	076 830 9041	
Andrew Masisi		P O Box 7460 Rustenburg 0284	076 830 9041	
Lazarus Khumalo		P O Box 98 Marikana 0284	071 222 2263	
Molatsi Masentle	Maditlhokwa	P O Box 98 Marikana 0284	071 003 6325	
Ndingi Nosweety	Maditlhokwa	P O Box 25 Marikana 0284	072 817 1879	
Moipone Ntepe	Maditlhokwa	P O Box 98 Marikana 0284	079 977 2651	
Annah Kgobane	Maditlhokwa	P O Box 98 Marikana 0284	083 429 5943	
Adriano Mathe	Maditlhokwa	-	078 701 1120	
Jackson Monjonkwe		-	072 195 8059	
Tebogo Rakgotho		-	076 311 9946	
V P Choko-choko		P O Box 453 Marikana 0284	073 871 0304	
Lizzy Dube		P O Box 98 Marikana 0284	071 113 0398	

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Ntomboxolo Blayi		P O Box 98 Marikana 0284	072 925 5883	
Theresia Soso		P O Box 511 Marikana 0284	071 760 6619	
Doris Manyisa		P O Box 511 Marikana 0284	082 517 1717	
Purity Nzama		P O Box 511 Marikana 0284	-	
Christinah Morake		P O Box 98 Marikana 0284	-	

APPENDIX 2: PRESENTATION



SLR
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THARISA MINERALS (PTY) LTD


EIA/EMP AMENDMENT I

The proposed construction and operation of additional surface infrastructure, changes to the mine layout and to the operation.

18/Feb/2012


PROJECT OVERVIEW

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AGENDA


- Welcome and opening
- Registration
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PROJECT OVERVIEW


Motivation:

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- The trucks parking area and the gravel road will allow the trucks to be parked at the mine at night.
- The other changes to the general surface infrastructure will optimise the available space at the mine

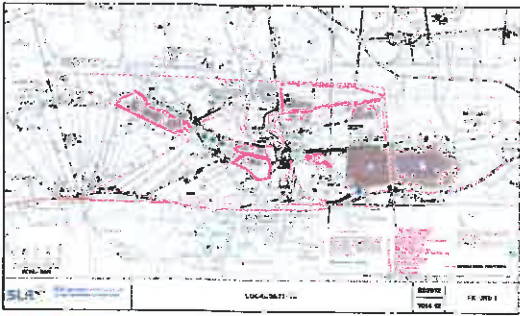
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PURPOSE OF TODAY'S MEETING

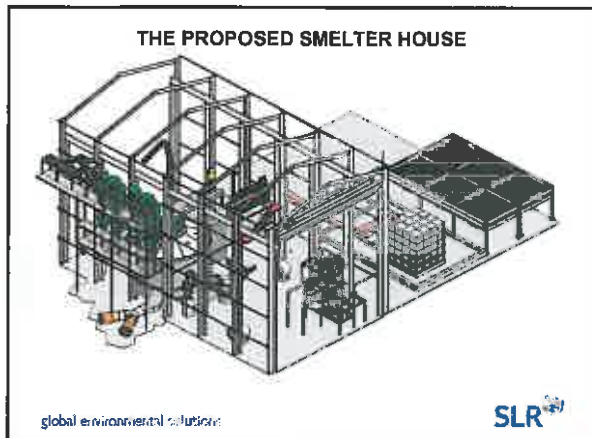
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- Understand the environmental process; and
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LOCALITY MAP



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ENVIRONMENTAL PROCESS

What?

- Assessment of the potential impacts of the proposed project on the environment
- Environment definition
- Implementing appropriate management measures

Why?

- Legal requirement and it is the right thing to do.

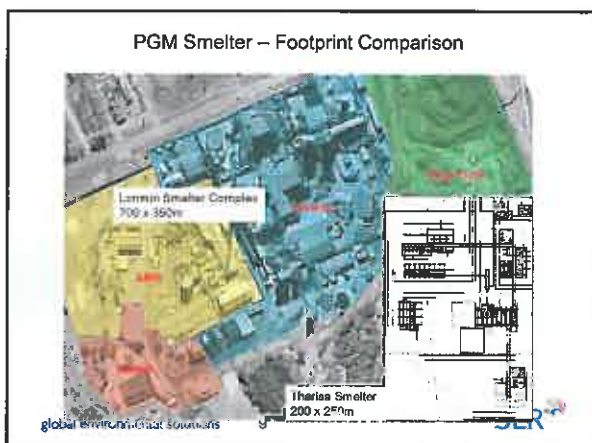
Different stages?

- Scoping phase (we are here)
- Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) phase

How?

- Participation of interested and affected parties
- Reporting via the initial BID, the scoping report and specialist studies where required
- The EIA/EMP report; and
- Decision making.

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ENVIRONMENTAL PROCESS

Who makes the decisions:

- Department of Mineral Resources (DMR);
- Department of Economic Development, Environment and Tourism (DEDET);
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- Department of Water Affairs (DWA);
- Department of Agriculture (DA);
- Department of Rural Development and Land Reform (DRDLR);
- South African Heritage Resource Agency (SAHRA); and
- Relevant district and local municipalities

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EXISTING ENVIRONMENT

All the proposed activities will take place on the already disturbed areas.

- Climate:** Tharisa is situated in the Highveld Climatic Zone which is characterised by warm to mid with a typical summer rainfall climate, cool and dry Winters and one and July as the coldest months. Winds are generally light and blow predominantly from the north-west, frost and occasional hail storm.
- Topography:** is relatively flat with a gentle slope down to the north and has an elevation of approximately 1200meters above mean sea level (mans) with Mamelong Mountain Peaks rising up to 1400meters south of Tharisa. It has been changed by current mining activities to the north and west of Tharisa. The perennial Sterkspruit and the non-perennial tributary of the Elandsdriftspruit run in close proximity to the mine property.
- Land Use:** is a mixture of farming, mining, residential, small business and general community activities. Most land on the mine property has agricultural capability. Irrigation water is required for cultivation and is available from the Buffelspoort Dam by means of the Buffelspoort Government Water Scheme.
- Visual:** Tharisa Mine is visible from most of the communities and the road network connecting the communities. The aesthetic quality of the general area has already been extensively transformed by existing mining and agricultural operations in the area.

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QUESTIONS

- Groundwater:** contamination, dewatering, water use?
- Surface water:** contamination, storm water management?
- Air Quality:** air pollution?
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EXISTING ENVIRONMENT

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WAY FORWARD

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EXISTING ENVIRONMENT

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THANK YOU!

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THARISA MINERALS (PTY) LTD


EIA/EMP AMENDMENT I

The proposed construction and operation of additional surface infrastructure, changes to the mine layout and to the operation.

16/Feb/2012


PROJECT OVERVIEW

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PURPOSE OF TODAY'S MEETING

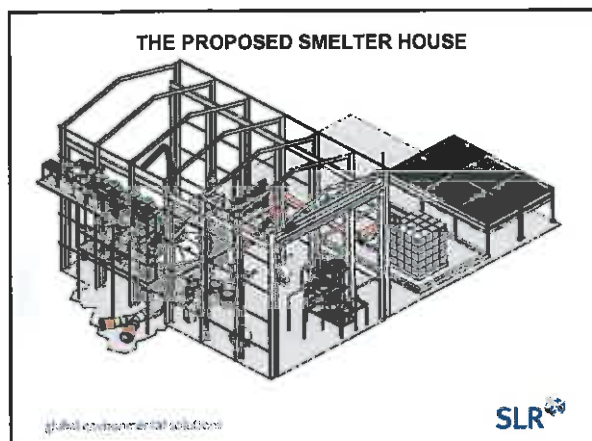
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LOCALITY MAP



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ENVIRONMENTAL PROCESS

What?

- Assessment of the potential impacts of the proposed project on the environment
- Environment definition
- Implementing appropriate management measures

Why?

- Legal requirement and it is the right thing to do.

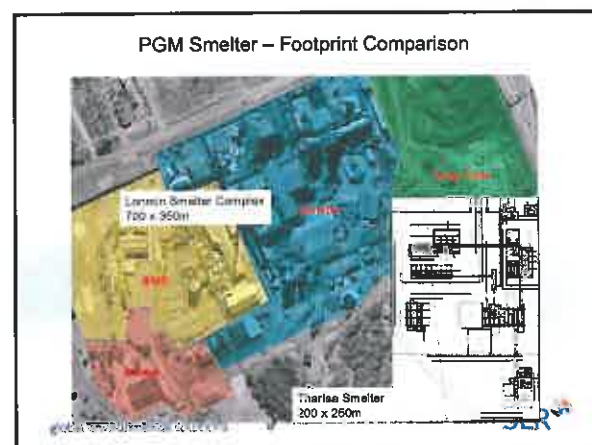
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How?

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EXISTING ENVIRONMENT

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QUESTIONS

- **Groundwater:** contamination, dewatering, water use?
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THARISA MINERALS (PTY) LTD

EIA/EMP AMENDMENT I


The proposed construction and operation of additional surface infrastructure, changes to the mine layout and to the operation

Scoping/Site Meeting: Regulatory Authorities 21/Feb/2012




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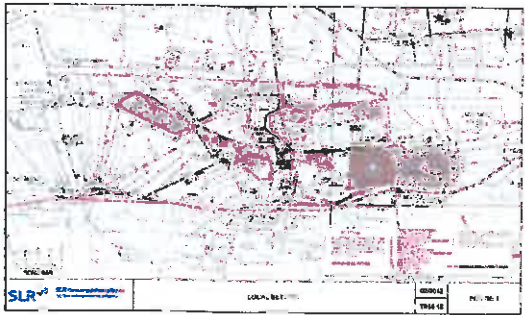
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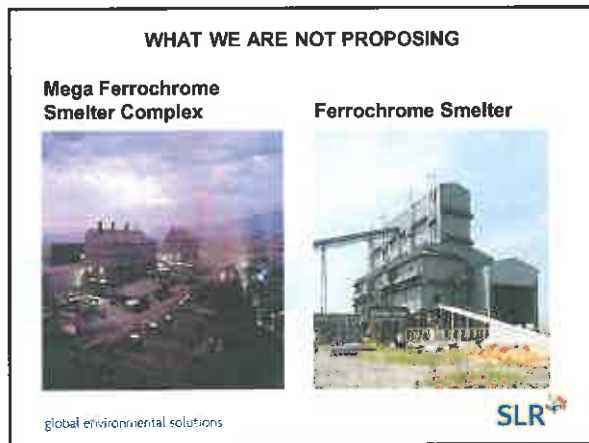
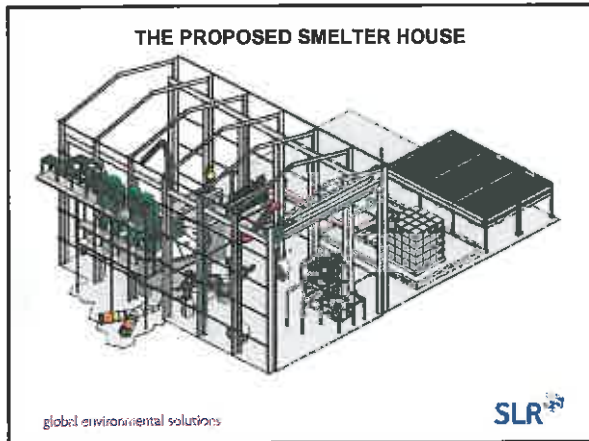
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LOCALITY MAP



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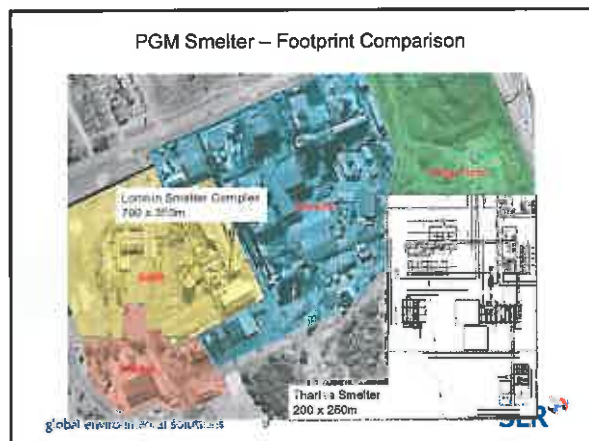
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EXISTING ENVIRONMENT

- Surface water:** Tharisa Mine is located within the upper reaches of the A21K quaternary catchment, which falls within the Lower Crocodile Secondary catchment and the Crocodile West and Mariro Water Management Area. There is perennial Sterkspruit which flows from the Buffelspoort Dam, south of the N4 in a northerly direction through the centre of the mine area and two unnamed non-perennial tributaries of the Brakspruit, an unnamed non-perennial tributary of the Maretwane and an unnamed non-perennial tributary of the Elandsdriftspruit. The quality of water is generally an ideal for domestic purposes such as washing, bathing, livestock, watering and for agricultural purposes.
- Heritage:** the most important heritage resources discovered on the mine were stone walled settlements, graveyards, a historical village and homestead, mining heritage remains, isolated and randomly scattered stone tools, historical houses and outcrops and discarded agricultural implements. The heritage resources in the broader area are expected to have a potential for the following occurrences: historical buildings, stone walls and graveyards.
- Socio-Economic:** Tharisa mine is located in both Rustenburg and Mafikeng Local Municipalities. Education levels in the area are low, unemployment rates are high, the establishment of the un-serviced settlements is increasing. Mining and related industries are the major formal employment provider.

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THANK YOU!

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