

**DEPARTMENT OF MINERAL RESOURCES****ATTENTION: MRS. RAISIBE SEKEPANE****TSHIPI É NTLÉ****NOTICE OF INTENT FOR THE AMENDMENT OF TSHIPI'S EIA/EMP TO CATER FOR  
INFRASTRUCTURE LAYOUT CHANGES AND THE PROPOSED CLOSURE CHANGES**

Dear Raisebe

Tshipi é Ntle (Tshipi Borwa Mine) currently operates in accordance to an approved environmental impact assessment and environmental management programme (EIA/EMP) (NC/30/5/1/2/2/0206MR) that was authorised by the Department of Mineral Resources (DMR) in 2009. The existing mine is located near Hotazel in the Northern Cape Province.

This letter serves to inform you of Tshipi's intent to amend its approved EIA/EMP report to cater for changes to the infrastructure layout that have already taken place as well as proposed changes. Changes that have already taken place at the Tshipi Mine include:

- The relocation of the waste rock dump;
- The relocation of the office infrastructure;
- Design and capacities change of the approved stormwater dams;
- Changes in the design of the railway siding; and
- The relocation of the main entrance into the mine.

Proposed changes to the approved infrastructure layout include:

- The relocation of the low grade dump;
- The relocation of the fines dump;
- The expansion of the existing sewage treatment plant from a daily throughput capacity of 60m<sup>3</sup> to 96m<sup>3</sup>;
- The expansion of the existing above ground diesel storage by more than 500m<sup>3</sup> of diesel; and
- Development of a joint mining and waste rock dump area on the boundary with Mamatwan mine.

The EIA/EMP amendment process will include an investigation into alternatives closure objectives.

Kind regards

A handwritten signature in black ink, appearing to read 'NDaly', written in a cursive style.

Natasha Daly

(Project manager)



**APPLICATION FORM FOR AUTHORIZATION**  
**in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998),**  
**as amended and the Environmental Impact Assessment Regulations, 2010**

File Reference Number:  
NEAS Reference Number:  
Date Received:

(For official use only)


**Kindly note that:**

1. This application form is current as of 02 August 2010.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. It is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. Incomplete applications may be returned to the applicant for revision.
5. The use of "not applicable" in the form must be done with circumspection as if it is used in respect of material information that is required by the competent authority for assessing the application, and may result in the rejection of the application as provided for in the regulations.
6. This application must be handed in at the offices of the Northern Cape Department of Environment and Nature Conservation.
7. No faxed or e-mailed applications will be accepted.
8. The application must be completed by an independent environmental practitioner.
9. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

**SITE IDENTIFICATION AND LINKAGE**

Please indicate all the Surveyor-General 21 digit site (erf/farm/portion) reference numbers for all sites (including portions of sites) that are part of the application.

T	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0	0	1	6
T	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0	0	1	7
T	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0	0	1	8
T	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0	0	0	8
T	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	1
T	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	3

If there are more than 10, please attach a list with the rest of the number  
(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

## 1. BACKGROUND INFORMATION

<b>Project applicant:</b>	Tshipi é Ntle Manganese Mining (Pty) Ltd		
<b>Trading name (if any):</b>	Tshipi é Ntle Manganese Mining (Pty) Ltd		
<b>Business reg. no./ID. no.:</b>	2008/003117/07		
<b>Contact person:</b>	Pule Ezekiel Lothare		
<b>Physical address:</b>	Farm Mamatwan 331 Kuruman Magisterial District Northern Cape		
<b>Postal address:</b>	PO Box 2098 Kathu		
<b>Postal code:</b>	8446	<b>Cell:</b>	083 738 7998
<b>Telephone:</b>	053 739 4700	<b>Fax:</b>	086 577 8636
<b>E-mail:</b>	ezeziel@tshipi.co.za		

<b>Project consultant/firm:</b>	SLR Consulting (Africa) (Pty) Ltd		
<b>Business reg. no./ID. no.:</b>	1998/05179/07		
<b>Contact person:</b>	Natasha Daly		
<b>Postal address:</b>	P.O. Box 1596, Cramerview		
<b>Postal code:</b>	2060	<b>Cell:</b>	083 226 8570
<b>Telephone:</b>	011 467 0945	<b>Fax:</b>	011 476 0978
<b>E-mail:</b>	ndaly@slrconsulting.com		
<b>Qualifications:</b>	None		

<b>Landowner:</b>	Appendix B		
<b>Business reg. no./ID. no.:</b>			
<b>Contact person:</b>			
<b>Postal address:</b>			
<b>Postal code:</b>		<b>Cell:</b>	
<b>Telephone:</b>		<b>Fax:</b>	
<b>E-mail:</b>			

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

<b>District Municipality</b>	John Taolo Gaetsewe District Municipality		
<b>Local authority in whose jurisdiction the proposed activity will fall:</b>	Gamagara and Joe Morolong Local Municipality		
<b>Contact person:</b>	Appendix C		
<b>Postal address:</b>			
<b>Postal code:</b>		<b>Cell:</b>	
<b>Telephone:</b>		<b>Fax:</b>	
<b>E-mail:</b>			

Please note that a complete list of all organs or state and or any other applicable authority with their contact details must be appended to this application.

<b>Project title:</b>	Proposed EIA to cater for changes to the approved infrastructure at the Tshipi Borwa Mine
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<b>Brief project description</b>	Proposed EIA to cater for changes to the approved infrastructure at the Tshipi Borwa mine to include the expansion of the diesel storage facility and the use of tailings material to backfill the open pit. These activities will trigger listed activities 28 of Listing Notice 1 of Regulation 544 and activities 3 and 5 of Listing Notice 2 of Regulation 545. Further detail on the listed activities is provided in Section 2 of this application.
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<b>Project Location:</b>	Refer to Appendix A (Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.
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<b>Closest Town(s) or district(s):</b>		<b>Distance (in km):</b>	
	Hotazel	20 KM	South-East
	Kuruman	70 KM	South-East
	Kathu	73 KM	South

<b>Physical address:</b>	In instances where there is more than one town or district involved, please attach a list of towns or districts to this application.
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<b>Current land-use zoning:</b>	The current land use zoning is that of an agricultural environment
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In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

**Coordinates:**

Latitude:	27, <sup>o</sup>	23,'	17.85." <sup>o</sup>	South
Longitude:	22, <sup>o</sup>	57,'	58.57 " <sup>o</sup>	East

**Property size:**

Approximately 1700 ha

**Is a change of land-use or a consent use application required?**

NO

**Must a building plan be submitted to the local authority?**

NO

**Locality map:**

A locality map must be attached to back of this document, as Appendix A. The scale of the locality map must be at least 1:50 000. The scale must be indicated on the map. The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow.

Refer to Appendix A for the locality plan

## 2. ACTIVITIES APPLIED FOR

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice) :	Describe each listed activity:
Regulation 544 in terms of Listing Notice 2 of June 2010	28	<p>The expansion of or changes to existing facilities for any process or activity where such expansion or changes to will result in the need for a permit or license in terms of national or provincial legislation governing the generation or release of emissions or pollution excluding where the facility is included in the list waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply.</p> <p>An air emissions license in terms of the National Environmental Management: Air Quality Act 2004 (Act 39 of 2004) is required for all permanent immobile liquid storage tanks larger than 500 cubic metres cumulative tankage capacity at a site. Tshipi is proposing to construct an additional diesel storage facility of more than 500 cubic metres and as such the cumulative tankage capacity on site will be more than 1000 cubic metres.</p>
Regulation 545 in terms of Listing Notice 2 of June 2010	3	<p>The construction of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.</p> <p>(Tshipi is proposing to increase its existing above ground diesel storage area, where the combined capacity will be more than 1000 cubic metres)</p>
	5	<p>The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent and which is not identified in Notice No. R.544 of 2010 or included in the list of waste management activities published in terms of section 19 of the National</p>

Indicate the number and date of the relevant notice:      Activity No (s) (in terms of the relevant or notice) :      Describe each listed activity:

		<p>Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply.</p> <p>(The use of tailing material to backfill the open pit, will require authorisation in terms of the National Water Act No. 36 of 1998.)</p>
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Please note that any authorisation that may result out of this application will **only** cover activities applied for. Omissions may render any authorisation that is based on incomplete information to be nil **and** void.

### 3. OTHER AUTHORISATION REQUIRED

3.1 Do you need any Authorisation in terms of any of the following laws?

3.1.1	National Environmental Management Act: Waste Act	Yes	
3.1.2	National Environmental Management Act : Air Quality Act	Yes	
3.1.3	National Environmental Management Act : Protected Areas		No
3.1.4	National Environmental Management Act : Biodiversity Act		No
3.1.5	Mineral Petroleum Development Resources Act		No
3.1.6	National Water Act	Yes	
3.1.7	National Heritage Resource Act		No
3.1.8	Other ( Please Specify )		No

3.2 Have such applications been lodged already?

No

### 4. TYPE OF APPLICATION

4.1. Application for Basic Assessment (BA)

Is this an application for conducting a basic assessment (as defined in the regulations)?

YES	NO
YES	NO

If, YES, is a basic assessment report attached?

If, NO, please indicate when the basic assessment report will be submitted:

Not applicable

4.2. Application for Scoping and Environmental Impact Assessment (EIA)

Is this an application for Scoping and EIA (as defined in the regulations)?

YES	
	NO

If, YES, is a Scoping Report and Plan of Study for EIA attached?

If, NO, please indicate when the Scoping Report and Plan of Study for EIA will be submitted:

It is anticipated that the scoping report will be submitted to your department in June 2012.

The scoping report and/or the plan of study for EIA will be submitted after consultation with the competent authority:

YES	
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A consultation with the competent authority is hereby requested:

YES	
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**5. Declarations**

5.1 The Applicant

Pule Ezekiel Lotlhare declare that I -

- am, or represent<sup>1</sup>, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner<sup>2</sup>;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to –
  - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
  - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
  - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
  - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
  - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the applicant<sup>3</sup>/ Signature on behalf of the applicant:

Tshipi é Ntle Manganese Mining (Pty) Ltd

Name of company (if applicable):

02/05/2013

Date

Signature of the Commissioner of Oaths:

02/05/2013

Date:

Financial Accountant (Chartered Accountant)

Designation:

Official stamp (below):

**COMMISSIONER OF OATHS**  
**PAUL JOHANNES JONKER**  
 CA (SA)  
 SAICA Membership No. 20017211  
 Commissioner of Oaths (RSA)

Tshipi é Ntle Manganese Mining (Pty) Ltd

<sup>1</sup> If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.


<sup>2</sup> If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

<sup>3</sup> If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.

5.2 The Environmental Assessment Practitioner

I, Natasha Daly, declare that --

- I act as the independent environmental practitioner in this application
- I act independently
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;

  
Signature of the environmental assessment practitioner:

SLR Consulting (Africa) (Pty) Ltd

Name of company:

02 May 2013  
Date:

Signature of the Commissioner of Oaths:

02 MAY 2013  
Date:

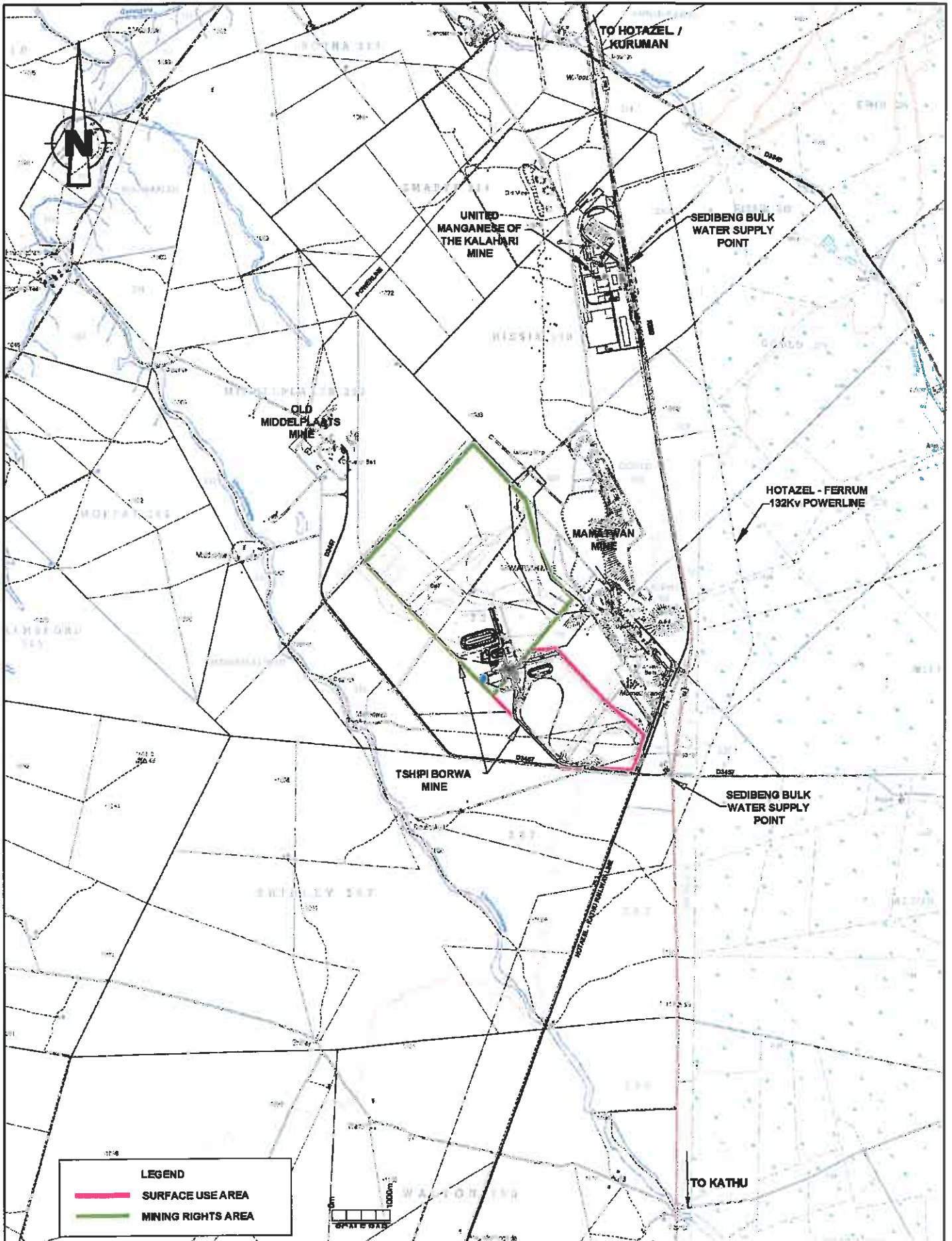
Designation:

Official stamp (below):

**BRANDON IAN STOBART  
EX OFFICIO  
COMMISSIONER OF OATHS  
NON-PRACTISING ATTORNEY  
REPUBLIC OF SOUTH AFRICA  
UNIT 7, FOURWAYS MANOR OFFICE PARK  
FOURWAYS**



## APPENDIX A: LOCALITY PLAN



## APPENDIX B: LANDOWNER DETAILS

### TABLE 1: LAND OWNERSHIP

Portion	Landowner	Title deed number	Contact person	Postal address	Contact details
<b>Mamatwan 331</b>					
Remaining extent	Andries Mathys Van Den Berg	T594/1987	Andries Mathys Van Den Berg		082 495 4409 <a href="mailto:amvandenberga@absamail.co.za">amvandenberga@absamail.co.za</a> <a href="mailto:bergam@telkomsa.net">bergam@telkomsa.net</a>
Portion 16 (Portion of portion 1)	Ntsimbintle Mining Pty Ltd	T904/2011	Jeff Leader	Po Box 2908, Kathu 8446	<a href="mailto:jeff@tshipi.co.za">jeff@tshipi.co.za</a> 053 773 9350
Portion 17 (Portion of portion 2)	Ntsimbintle Mining Pty Ltd	T904/2011	Jeff Leader	Po Box 2908, Kathu 8446	<a href="mailto:jeff@tshipi.co.za">jeff@tshipi.co.za</a> 053 773 9350
Portion 18 (Portion of portion 3)	Ntsimbintle Mining Pty Ltd	T301/2011	Jeff Leader	Po Box 2908, Kathu 8446	<a href="mailto:jeff@tshipi.co.za">jeff@tshipi.co.za</a> 053 773 9350
Portion 8	Tshipi é Ntle Manganese Mines	T770/2011	Jeff Leader	Po Box 2908, Kathu 8446	<a href="mailto:jeff@tshipi.co.za">jeff@tshipi.co.za</a> 053 773 9350
<b>Moab 700</b>					
Remaining Extent	Kruger Machiel Andries	T1229/1993	Kruger Machiel Andries	-	053 741 1612 083 656 6545 <a href="mailto:krugersoret@yahoo.com">krugersoret@yahoo.com</a>
Portion 1	Transnet (Republic of South Africa)	T250/1983	Sam Fiff	-	051 408 256 083 284 3619 <a href="mailto:Sam.fiff@transnet.net">Sam.fiff@transnet.net</a>
Portion 3	Hotazel Manganese Mines (Pty) Ltd	T953/2009	Dineo Peta	-	<a href="mailto:Dineo.Peta@bhpbilliton.com">Dineo.Peta@bhpbilliton.com</a> 011 376 2627 082 082 5529
			Rudzani Mudau	-	<a href="mailto:Rudzani.mudau@bhpbilliton.com">Rudzani.mudau@bhpbilliton.com</a> 053-742-2174 084-916-2179

## APPENDIX C: LOCAL MUNICIPALITIES

**TABLE 2: LOCAL MUNICIPALITIES**

<b>Local municipality</b>	<b>Contact person</b>	<b>Postal address</b>	<b>Contact details</b>
Gamagara Local Municipality	Clement Itumeleng (Municipal Manager)	Po Box 1001 Kathu 8446	053 723 2261 <a href="mailto:Clementi@gamagara.co.za">Clementi@gamagara.co.za</a>
Joe Morolong Local Municipality	Pabalelo Sampson (Municipal Manager)	Private Bag X 117 Mothibistad 8474	053 773 9300 <a href="mailto:pkegakilwe@gmail.com">pkegakilwe@gmail.com</a>

## APPENDIX D: LANDOWNER NOTIFICATION LETTER

**TSHIPI É NTLÉ MANGANESE MINING**  
**NOTICE OF INTENT FOR THE AMENDMENT OF TSHIPI'S EIA AND EMP TO CATER FOR**  
**INFRASTRUCTURE LAYOUT CHANGES**

Dear Sir/Madam

Tshipi é Ntle Manganese Mining (Tshipi) currently operates the developing Tshipi Borwa Mine located on the farms Mamatwan 331 and Moab 700, to the south of Hotazel in the Johan Taolo Gaetsewe District Municipality (previously known as the Kgalagadi District Municipality) in the Northern Cape Province.

The Tshipi Borwa Mine and associated activities was approved in terms of the National Environmental Management Act (NEMA) No. 107 of 1998 (Reference number: NC/KGA/KATHU/37/2008) in 2009 and the Mineral and Petroleum Resources Development Act (MPRDA), 28 of 2002 (Reference number: NC/30/5/1/2/2/0206MR) in 2009.

This letter serves to inform you of Tshipi's intent to amend its approved EIA and EMP report to cater for changes to the infrastructure layout that have already taken place as well as proposed changes. Changes that have already taken place at the Tshipi Borwa Mine include:

- The relocation of the waste rock dump;
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- The relocation of the main entrance into the mine.

Proposed changes to the approved infrastructure layout include:

- The establishment of an additional stormwater dam;
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- The expansion of the existing above ground diesel storage by more than 500m<sup>3</sup> of diesel;
- Development of a joint mining and waste rock dump area on the boundary with Mamatwan mine;

SLR Consulting (Africa) (Proprietary) Limited

[www.slrconsulting.com](http://www.slrconsulting.com)

Registered Address: Unit 7 Fourways Manor Office Park, 1 Macbeth Avenue, Fourways, 2055

Postal address: PO Box 1596, Cramerville, 2060, South Africa

Reg. No.: 1998/005179/07 VAT No.: 4300145887

Fourways Office: Physical address: Unit 7 Fourways Manor Office Park, 1 Macbeth Ave, Fourways / Postal address: P O Box 1596, Cramerville, 2060 / T: +27 11 467 0945 / F: +27 11 467 0978

Pretoria Office: Physical address: Pentagon House, 669 Plettenberg Road, Faerie Glen, Pretoria / Postal address: P O Box 40161, Faerie Glen, 0043 / T: +27 12 991 8881 / F: +27 12 991 1907

Durban Office: Physical address: 130 Pharos House, 70 Buckingham Terrace, Westville, Durban / Postal address: P O Box 422, Westville, 3630 / T: +27 31 266 3083 / F: +27 86 600 5186

- The use of tailings material to backfill the open pit.

SLR Consulting (Africa) (Pty) Ltd, an independent firm of environmental consultants, has been appointed by Tshipi to manage the environmental authorisation process required for both the MPRDA and NEMA.

For any further information please do not hesitate to contact the undersigned.

Kind regards



Natasha Daly

(Project manager)

**Natasha Daly**

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**From:** Caitlin Pringle  
**Sent:** 06 May 2013 09:22 AM  
**To:** Dineo.Peta@bhpbilliton.com; Sam.fiss@transnet.net; krugersoret@yahoo.com; amvandenberga@absamail.co.za  
**Cc:** Natasha Daly  
**Subject:** TSHIPI É NTLÉ MANGANESE MINING: NOTICE OF INTENT FOR THE AMENDMENT OF TSHIPI'S EIA AND EMP TO CATER FOR INFRASTRUCTURE LAYOUT CHANGES  
**Attachments:** 2013-05-06-Tshipi Letter of Intent.pdf

**TSHIPI É NTLÉ MANGANESE MINING**

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In this regard, kindly find attached.

Kind Regards,

**Caitlin Pringle**  
**Environmental Consultant**  
SLR Consulting (Africa) (Pty) Ltd

Email: [cpringle@slrconsulting.com](mailto:cpringle@slrconsulting.com)  
Mobile: +27 84 491 1987  
Tel: +27 11 467 0945  
Ext: 3216  
Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg, 2060  
South Africa



## Natasha Daly

---

**From:** Natasha Daly  
**Sent:** 13 May 2013 01:39 PM  
**To:** amvandenbergh@absamail.co.za; sam.fiff@transnet.net;  
Dineo.Peta@bhpbilliton.com; rudzani.mudau@bhpbilliton.com  
**Subject:** TSHIPI É NTLÉ MANGANESE MINING: NOTICE OF INTENT FOR THE AMENDMENT OF TSHIPI'S EIA AND EMP TO CATER FOR INFRASTRUCTURE LAYOUT CHANGES  
**Attachments:** 2013-05-13-Tshipi Letter of Intent.pdf

### TSHIPI É NTLÉ MANGANESE MINING

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In this regard, kindly find attached.

Kind Regards

Natasha Daly

**Natasha Daly**  
**Environmental Scientist**  
SLR Consulting (Africa) (Pty) Ltd

Email: [ndaly@slrconsulting.com](mailto:ndaly@slrconsulting.com)

Mobile: +27 83 226 8570

Tel: +27 11 467 0945

Fax: +27 11 467 0978

SLR Africa (Block 7)  
Fourways Manor Office Park  
2191, Cnr Roos and Macbeth Streets  
Fourways, Johannesburg, 2060  
South Africa



**Confidentiality Notice and Disclaimer**

**Natasha Daly**

---

**From:** Natasha Daly  
**Sent:** 13 May 2013 01:44 PM  
**To:** bergam@telkomsa.net  
**Subject:** TSHIPI É NTLÉ MANGANESE MINING: NOTICE OF INTENT FOR THE AMENDMENT OF TSHIPI'S EIA AND EMP TO CATER FOR INFRASTRUCTURE LAYOUT CHANGES  
**Attachments:** 2013-05-13-Tshipi Letter of Intent.pdf

**TSHIPI É NTLÉ MANGANESE MINING**

**NOTICE OF INTENT FOR THE AMENDMENT OF TSHIPI'S EIA AND EMP TO CATER FOR INFRASTRUCTURE LAYOUT CHANGES**

Dear Sir/Madam

Tshipi é Ntle Manganese Mining (Tshipi) currently operates the developing Tshipi Borwa Mine located on the farms Mamatwan 331 and Moab 700, to the south of Hotazel in the Johan Taolo Gaetsewe District Municipality (previously known as the Kgalagadi District Municipality) in the Northern Cape Province.

The Tshipi Borwa Mine and associated activities was approved in terms of the National Environmental Management Act (NEMA) No. 107 of 1998 (Reference number: NC/KGA/KATHU/37/2008) in 2009 and the Mineral and Petroleum Resources Development Act (MPRDA), 28 of 2002 (Reference number: NC/30/5/1/2/2/0206MR) in 2009.

This letter serves to inform you of Tshipi's intent to amend its approved EIA and EMP report to cater for changes to the infrastructure layout that have already taken place as well as proposed changes.

In this regard, kindly find attached.

Kind Regards

Natasha Daly

**Natasha Daly**  
**Environmental Scientist**  
SLR Consulting (Africa) (Pty) Ltd

Email: [ndaly@slrconsulting.com](mailto:ndaly@slrconsulting.com)

Mobile: +27 83 226 8570

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Fourways, Johannesburg, 2060  
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**Confidentiality Notice and Disclaimer**

**Natasha Daly**

---

**From:** Natasha Daly  
**Sent:** 14 May 2013 02:32 PM  
**To:** 'Jeff Leader'  
**Subject:** TSHIPI É NTLÉ MANGANESE MINING: NOTICE OF INTENT FOR THE AMENDMENT OF TSHIPI'S EIA AND EMP TO CATER FOR INFRASTRUCTURE LAYOUT CHANGES  
**Attachments:** 2013-05-13-Tshipi Letter of Intent.pdf

**TSHIPI É NTLÉ MANGANESE MINING**

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environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

# WASTE LICENSE APPLICATION FORM

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APPLICATION FORM FOR NEW WASTE MANAGEMENT ACTIVITY LICENSE

**BEFORE COMPLETING THIS FORM, PLEASE READ WASTE  
LICENSING PROCESS FOR HAZARDOUS WASTE MANAGEMENT  
ACTIVITIES "EXPLANATORY NOTES"**

**INCORRECTLY COMPLETED AND INCOMPLETE APPLICATION  
FORMS WILL NOT BE CONSIDERED ("Will be Rejected")**

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Enquiries: The Director: Licensing

315 Pretorius Street, 8<sup>th</sup> Floor North Tower - Fedsure Forum Building,  
Private Bag X 447, Pretoria, 0001. E-mail: [BRDlamini@environment.gov.za](mailto:BRDlamini@environment.gov.za) Tel. (012) 310 3897/Fax (012) 310 3573



# environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

(For official use only)

<b>File Reference Number:</b>	
<b>Date Received:</b>	
<b>Classification:</b>	
<b>NEAS NUMBER:</b>	

**WASTE LICENSE APPLICATION FORM**  
**in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008)**

**THE APPLICATION FORM MUST ONLY BE TYPED.**

### SECTION 1 – TYPE OF APPLICATION AND FACILITY:

Indicate the type of application by marking with a cross and fill in the required sections only

Does this application have a concurrent activity (ies) undertaken through a Provincial Authority

<b>YES</b>	<input type="checkbox"/>
------------	--------------------------

If yes provide the details of the activity (ies) like provincial reference number, case officer, stage of activity and any decisions made by the provincial authority.

INDICATE THE NO. & DATE OF THE RELEVANT NOTICE:	ACTIVITY NUMBERS (AS LISTED IN THE NEMA EIA ACTIVITY LIST :	DESCRIBE EACH LISTED ACTIVITY:
Regulation 544 in terms of Listing Notice 1 of June 2010	28	<p>The expansion of or changes to existing facilities for any process or activity where such expansion or changes to will result in the need for a permit or license in terms of in terms of national or provincial legislation governing the generation or release of emissions or pollution excluding where the facility is included in the list waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply.</p> <p>An air emissions license in terms of the National Environmental Management: Air Quality Act 2004 (Act 39 of 2004) is required for all permanent immobile liquid storage tanks larger than 500 cubic metres cumulative tankage capacity at a site. Tshipi é Ntle Manganese Mining is proposing to construct an additional storage facility of more than 500 cubic metres and as such the cumulative tankage capacity on site will be more than 1000 cubic metres.</p>

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Regulation 545 in terms of Listing Notice 2 of June 2010	3	<p>The construction of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.</p> <p>(Tshipi é Ntle Manganese Mining is proposing to increase its existing above ground diesel storage area, where the combined capacity will be more than 1000 cubic metres)</p>
	5	<p>The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent and which is not identified in Notice No. R.544 of 2010 or included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply.</p> <p>(The use of tailing material to backfill the open pit, will require authorisation in terms of the National Water Act No. 36 of 1998.)</p>

The above listed activities have been applied for with the Northern Cape Department of Environment and Nature Conservation (DENC). The environmental authorisation reference number is NC/EIA/08/JTG/GAM/TSH1/2013 / NCP/EIA/0000229/2013. The responsible officer for the project is Mr M. Mathews and can be contacted on (053) 773 1239.

The environmental authorisation process is currently in the scoping phase of the project. No decisions have been made by DENC.

## Activities applied for

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

INDICATE THE NO. & DATE OF THE RELEVANT NOTICE:	ACTIVITY NUMBERS (AS LISTED IN THE WASTE MANAGEMENT ACTIVITY LIST) :	LIST EACH ACTIVITY AS PER THE RELEVANT NOTICE
GN32368, 3 July 2009	Category B4 (7)	The treatment of effluent, wastewater or sewage with an annual throughput capacity of $\geq 15\ 000\text{m}^3$ .  Tshipi é Ntle Manganese Mining is proposing to expand their approved sewage treatment plant from 60 cubic metres per day to 96 cubic metres per day. The maximum capacity of the sewage plant will therefore be $35\ 040\ \text{m}^3$ annually.
GN32368, 3 July 2009	Category B4 (11)	The construction of facilities for activities listed in Category B of this Schedule (not in isolation to associated activity).

NB: Waste Management Licence issued will only cover activities applied for as listed above. Activities added in the middle or after the processing of this authorisation may mean a Licence Variation process has to be followed.

### Application for Category A (equivalent to Basic Assessment)

Is this an application for a basic assessment (as defined in the EIA regulations)?

 YES  NO

Not applicable

### Application for Category B (equivalent to Scoping and Environmental Impact Assessment (EIA))

Is this an application for Scoping and EIA (as defined in the EIA regulations)?

 YES  NO

Please Submit the Draft Scoping Report and a Plan of Study for EIA

The scoping report will be available in August 2013.

**COMMENCEMENT: Has activity (ies) commenced:**

 No

If yes, When (provide the Year, Month and Date):

The increase in capacity has not commenced.

## SECTION 2: SITE IDENTIFICATION, LOCATION AND LANDUSE

Please give a full description of the property on which the site is situated in terms of the Deeds Act and examples of the address are:

- Portion 49 (portion of Portion 27) of the farm Brandbach 471 JR
- -Remainder of the farm Klaver Valley 356
- -Remaining Extend of Portion 6 of the farm Klaver Valley 356
- -Sub 36 (sub of Sub 24) of the farm Weltevreden 1017
- -Plot 10 of Hunters Hill Agricultural holdings
- -Portion 1 of Erf 155, Dendron Township

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T	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0	0	1	7

**Size of Site and Classification**

Size of facility for a waste management activity	The expanded sewage treatment plant will be approximately 200m <sup>2</sup> .
Classification of facility in terms of climatic water balance	The sewage treatment plant is located within Tshipi's mining right area at the Tshipi Borwa Mine. Refer to the local setting in Appendix B.
Classification of Facility in terms of the type and the quantity of waste received	The sewage treatment plant will receive a daily throughput capacity of 96 m <sup>3</sup> per day. The maximum capacity of the sewage plant will therefore be 35 040 m <sup>3</sup> annually.

**Current land-use where the site is situated:**

Industrial	<input type="checkbox"/>	Recreation	<input type="checkbox"/>
Agriculture	<input checked="" type="checkbox"/>	Commercial	<input type="checkbox"/>
Residential	<input type="checkbox"/>	Mining & quarrying	<input type="checkbox"/>
Forestry	<input type="checkbox"/>	Wilderness areas	<input type="checkbox"/>
Wetlands	<input type="checkbox"/>	Nature area	<input type="checkbox"/>
Open spaces	<input type="checkbox"/>		

Other.....

	MARK YES/NO	SECTION IN THE REPORTS WHERE RELAVANT AUTHORISATION IS ATTACHED
Is a change of land-use or a consent use application required?	<input type="checkbox"/>	No
Must a building plan be submitted to the local authority for approval?	<input type="checkbox"/>	No

Geographical coordinates of the external corner points of the site: **(If more than one activity, please provide coordinates of external corner points for each activity)**

Number of corner	Latitude			Longitude		
Top left corner	27°	23'	35.43"	22°	57'	48.8"
Top right corner	27°	23'	35.22"	22°	57'	49.57"
Bottom right corner	27°	23'	35.42"	22°	57'	49.64"
Bottom left corner	27°	23'	35.61"	22°	57'	48.94"
	°	'	"	°	'	"

### Site Address:

Building Name or Number	N/A		
Street	N/A		
City/Closest Town	Hotazel (approximately 20km south east)		
Province	Northern Cape		
Local Municipality	Joe Morolong Local Municipality (Refer to Appendix A for further detail)		
District Municipality	John Taolo Gaetsewe District Municipality		
Postal address	PO Box 2098 Kathu		
Postal code:	8446	Cell:	083 738 7998
Telephone:	086 577 8636	Fax:	053 739 4700
E-mail:	ezeziel@tshipi.co.za		

### SECTION 3: CONTACT INFORMATION

A) Person to contact about application (EAP)	Ms Natasha Daly		
First name & Surname	SLR Consulting (Africa) (Pty) Ltd		
Company name (if any):	1998/05179/07		
Company Registration/Identity number for individuals	Block C, Fourways Manor Office Park		
Physical address:	Corner Roos and Macbeth Str, Fourways		
Postal address:	PO Box 1596		
	Cramerview		
Postal code:	2060	Cell:	083 226 8570
Telephone:	011 467 0945	Fax:	011 467 0978
Email Address	ndaly@slrconsulting.com		

B) First name & Surname of Applicant –(Person wishing to hold license)	Brendan Robinson		
Company name (if any):	Tshipi é Ntle Manganese Mining (Pty) Ltd		
Company Registration/identity number for individuals	2008/003117/07		
Physical address	52 Grosvenor Road , Fairways Office Park, Gleneagles Block, 1st Floor, Bryanston		
Postal address	PO Box 652286 Benmore South Africa		
Postal code:	2010	Cell:	
Telephone:	011 706 9004	Fax:	
E-mail:	<a href="mailto:brendan@tshipi.co.za">brendan@tshipi.co.za</a>		

C) First name & Surname of Landowner where activity takes place	Justin Pitt		
Company name (if any):	Ntsimbintle Mining (Pty) Ltd		
Company Registration/identity number for individual(s)	2004/003269/07		
Physical address	Safika House 89 Central Avenue Houghton 2198, South Africa		
Postal address	PO Box 652286 Benmore South Africa 2010		
Telephone:		Cell:	082 338 3954
	011 483 0840	Fax:	086 670 0026
E-mail:	<a href="mailto:justin@safika.co.za">justin@safika.co.za</a>		

## Operational times

	FROM	UNTIL
PERIOD		
Weekdays	24 hours per day	
Saturdays	24hours per day	
Sunday	24hours per day	
Public holidays	24hours per day	

**SECTION 4: PROCESS/ACTIVITY DESCRIPTION:**

**Project Title**

EIA to cater for proposed changes to the approved infrastructure at the Tshipi Borwa Mine

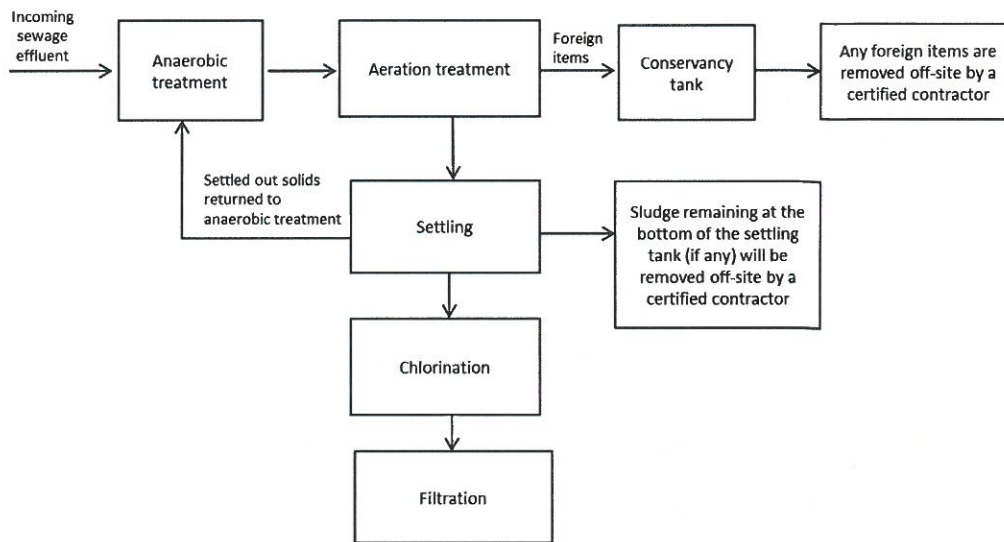
Please provide a brief description of the activities and operations at the site. Provide a flow chart of the operation showing all inputs and outputs of the process. Give particulars of the source, location, nature, composition and quantity of emission to the atmosphere, surface water, sewer, and ground-water including noise emissions. Solid waste must be in tons and specify units for liquids and gases.

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Tshipi is proposing to changes its approved infrastructure layout. One of these changes includes increasing the daily throughput capacity of the approved sewage treatment plant from 60m<sup>3</sup> to 96m<sup>3</sup>.

The sewage treatment plant is a sludge activated system that has the following treatment stages:

- Collection of sewage;
- Anaerobic treatment allows for bacterial processes to be carried out;
- Aeration treatment allows for the inclusion of oxygen into the system. Any foreign material will be collected in a conservancy tank on the property and disposed of off-site by a certified contractor;
- Settling allows for the solids to settle out from the clear supernatant flow. A portion of the settled solids (sludge) is returned to the anoxic tank for further anaerobic treatment. Any sludge remaining on the bottom of the settling tank is removed off-site by a certified contractor.
- Chlorination to kill any remaining bacteria; and
- Filtration to remove any remaining suspended solids by means of sand filters.



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**SECTION 5: WASTE QUANTITIES**

Indicate or specify types of waste and list the estimated quantities expected to be managed daily (should you need more rows, you are advised to add more)

Hazardous waste	Non hazardous waste	Total waste handled (tonnes per day)
Sewage sludge	N/A	0.033 tons per day (30kg per day)

Source of information supplied in the table above Mark with an "X"

- Determined from volumes
- Determined with weighbridge/scale
- Estimated

X

Recovery, Reuse, Recycling, treatment and disposal quantities:  
 Indicate the applicable waste types and quantities expected to be disposed of and salvaged annually:

TYPES OF WASTE	MAIN SOURCE (NAME OF COMPANY)	QUANTITIES		ON-SITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE RECOVERY REUSE RECYCLING TREATMENT OR DISPOSAL	OFFSITE DISPOSAL
		TONS/MONTH	M <sup>3</sup> /MONTH	method & location	method location and contractor details	
Sewage effluent	Sewage effluent will be sourced from the crushing and screening plant, change house, offices and ablutions and the mining change houses and office areas.	Approximately 2.88 tons/month	Approximately 2880m <sup>3</sup> /month (based on 96m <sup>3</sup> per day)	The sewage treatment plant is a sludge activate system. The sewage treatment plant is located within the mining rights area of the Tshipi Borwa Mine and will be used by mine employees only. Refer to Appendix B.	N/A	Sewage sludge will be removed off-site by a certified contractor. More details will be provided in the scoping and or EIA and EMP report.

## SECTION 6: GENERAL

### Prevailing wind direction (e.g. NWW)

November – April	The predominant wind direction is south-easterly and north-westerly
May - October	The predominant wind direction is south-easterly

### The size of population to be served by the facility

	Mark with "X"	Comment
0-499	X	The proposed increased capacity of the sewage treatment plant will be able to accommodate approximately 300 mine employees per day.
500-9,999		
10,000-199,999		
200,000 upwards		

### Indicate the geological formations underlying the site:

Granite		Quartzite	X
Shale	X	Dolomite	X
Sandstone		Dolerite	

Other \_\_\_\_\_

## SECTION 7: COMPETENCE TO OPERATE SITE

It is imperative that the holder of the waste license is a fit person in terms of section 59 of the NEMWA (59 of 2008). To assess the holder's competence to operate the site, please disclose the following:

### Legal compliance

	YES/NO	DETAILS
Has the applicant ever been found guilty or issued with a non compliance notice in terms of any national environmental management legislation?	No	Not applicable
Has the applicant's license in terms of the Waste Act ever been revoked?	No	Not applicable
Has the applicant ever been issued with a non compliance notices or letters in terms of any South African Law?	No	Not applicable

***NB:*** Details required above include any information that the applicant wants the Department to take into consideration in determining whether they are a "fit person" and this includes reasons why the offence happened and measures in place to prevent recurrence

### Technical competence

This information is not available at present and will be included in the scoping and/or EIA and EMP report.

What technical skills are required to operate the site?

How will the applicant ensure and maintain technical competency in the operation of the site?


Details of applicant's experience and qualification along with that of relevant employees must be summarised as shown in the table below: This information is not available at present and will be included in the scoping and/or EIA and EMP report.

NAME	POSITION	DUTIES AND RESPONSIBILITIES	QUALIFICATIONS AND EXPERIENCE

Enquiries: The Director: Licensing

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Financial Provisions

Provide a plan of estimated expenditure for the following:

This information is not available at present and will be included in the scoping and/or EIA and EMP report.

	ATTACHED/NOT ATTACHED	SECTION OF THE REPORT WHERE IT IS ATTACHED
Environmental Monitoring		
Provision and replacement of infrastructure		
Restoration and aftercare		

**SECTION 8: LANDFILL PARAMETERS (This section is not applicable)**

The method of disposal of waste:

Land-building  Land-filling  Both

The dimensions of the disposal site in metres

	At commencement	After rehabilitation
Height/Depth		
Length		
Breadth		

The total volume available for the disposal of waste on the site:

Volume Available	Mark with "X"	Source of information (Determined by surveyor/ Estimated)
Up to 99		
100-34 999		
35 000- 3,5 million		
>3,5 million		

Indicate the total volume already used for waste disposal:

(a) Will the waste body be covered daily	<input type="checkbox"/>	<input type="checkbox"/>
(b) Is sufficient cover material available	<input type="checkbox"/>	<input type="checkbox"/>
(c) Will waste be compacted daily	<input type="checkbox"/>	<input type="checkbox"/>

If the answers (a) and/or (b) are No, what measures will be undertaken to prevent the problems of burning or smouldering of waste and the generation of nuisance?



**The salvage method to be employed (Mark with an “X”)**

At source

Recycling installation

Formal salvaging

Contractor

No salvaging planned


**Fatal Flaws for the site:**

Indicate which of the following apply to the facility for a waste management activity:

Within a 3000m radius of the end of an airport landing strip

Within the 1 in 50 year flood line of any watercourse

Within an unstable area(fault zone, seismic zone, dolomitic area, sinkholes)

Within the drainage area or within 5 km of water source

Within an area with shallow and/or visible water table

Within an area adjacent to or above an aquifer

Within an area with shallow bedrock and limited available cover material

Within 100 m of the source of surface water

Within 1km from the wetland

Indicate the distance to the boundary of the nearest residential area

Indicate the distance to the boundary of the industrial area

YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
YES	NO
_____metres	
_____metres	

**Wettest six months of the year**

November- April	
May -October	

For the wettest six month period indicated above, indicate the following for the preceding 30 years

	Total rainfall for 6 months	Total A-pan evaporation for 6 months	Climatic water balance
For the 1 <sup>st</sup> wettest year			
For the 2 <sup>nd</sup> wettest year			
For the 3 <sup>rd</sup> wettest year			
For the 4 <sup>th</sup> wettest year			
For the 5 <sup>th</sup> wettest year			
For the 6 <sup>th</sup> wettest year			
For the 7 <sup>th</sup> wettest year			
For the 8 <sup>th</sup> wettest year			
For the 9 <sup>th</sup> wettest year			
For the 10 <sup>th</sup> wettest year			

**Location and depth of ground water monitoring boreholes:**

Codes of boreholes	Borehole locality	Depth (m)	Latitude	Longitude
.....	.....		° ' "	° ' "
.....	.....		° ' "	° ' "
.....	.....		° ' "	° ' "
.....	.....		° ' "	° ' "
.....	.....		° ' "	° ' "
.....	.....		° ' "	° ' "
.....	.....		° ' "	° ' "
.....	.....		° ' "	° ' "

**Location and depth of landfill gas monitoring test pit:**

Codes of boreholes	Borehole locality	Latitude			Longitude		
.....	.....	o	°	'	o	°	'
.....	.....	o	°	'	o	°	'
.....	.....	o	°	'	o	°	'
.....	.....	o	°	'	o	°	'
.....	.....	o	°	'	o	°	'
.....	.....	o	°	'	o	°	'
.....	.....	o	°	'	o	°	'
.....	.....	o	°	'	o	°	'

## SECTION 9: DECLARATIONS

### The independent Environmental Assessment Practitioner

I, Natasha Daly, declare under oath that I –

- act as the independent environmental assessment practitioner in this application ;
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;
- have and will not have no vested interest in the proposed activity proceeding;
- have no, and will not engage in, conflicting interests in the undertaking of the activity;
- undertake to disclose, to the competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2006;
- will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- will keep a register of all interested and affected parties that participated in a public participation process; and
- will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

  
Signature of the Environmental Assessment Practitioner:

SLR Consulting (Africa) (Pty) Ltd

Name of company:

19/06/2013  
Date:

  
Signature of the Commissioner of Oaths:

19/06/2013  
Date:

Designation:

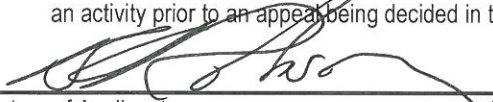
**BRANDON IAN STOBART  
EX OFFICIO  
COMMISSIONER OF OATHS  
NON-PRACTISING ATTORNEY  
REPUBLIC OF SOUTH AFRICA  
UNIT 7, FOURWAYS MANOR OFFICE PARK  
FOURWAYS**

Official stamp (Above)

## The Applicant

I, Brendan Robinson declare under oath that I -

- Am, or represent, the applicant in this application;
- appointed the environmental assessment practitioner as indicated above to act as the independent environmental assessment practitioner for this application;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to –
- costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
- costs incurred in respect of the undertaking of any process required in terms of the regulations;
- costs in respect of any fee prescribed by the Minister in respect of the regulations;
- costs in respect of specialist reviews, if the competent authority decides to recover costs; and
- the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these regulations;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.

  
Signature of Applicant

Tshipi é Ntle Manganese Mining

Name of company:

Date:

  
Signature of the Commissioner of Oaths:

Date:

Designation:

**BRANDON IAN STOBART  
EX OFFICIO  
COMMISSIONER OF OATHS  
NON-PRACTISING ATTORNEY  
REPUBLIC OF SOUTH AFRICA  
UNIT 7, FOURWAYS MANOR OFFICE PARK  
FOURWAYS**

Official stamp (Above)

Enquiries: The Director: Licensing

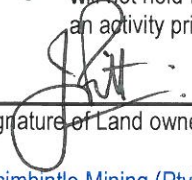
315 Pretorius Street, 8<sup>th</sup> Floor North Tower - Fedsure Forum Building,

Private Bag X 447, Pretoria, 0001. E-mail: [BRDlamini@environment.gov.za](mailto:BRDlamini@environment.gov.za) Tel. (012) 310 3897/Fax (012) 310 3573

**The Land owner (If the landowner is different from the Applicant)**

I, Justin Pitt declare under oath that I -

- Am, aware of the waste management activity (ies) to take place or taking place in my property
- Consented to this/ these activity (ies) taking / to take place in my property hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.


  
Signature of Land owner

Ntsimbintle Mining (Pty) Ltd

Name of company:

17/06/2013

Date:

  
Signature of the Commissioner of Oaths:

17/06/2013

Date:

Designation:

**BRANDON IAN STOBART  
EX OFFICIO  
COMMISSIONER OF OATHS  
NON-PRACTISING ATTORNEY  
REPUBLIC OF SOUTH AFRICA  
UNIT 7, FOURWAYS MANOR OFFICE PARK  
FOURWAYS**

Official stamp (Above)

Enquiries: The Director: Licensing

315 Pretorius Street, 8<sup>th</sup> Floor North Tower - Fedsure Forum Building,

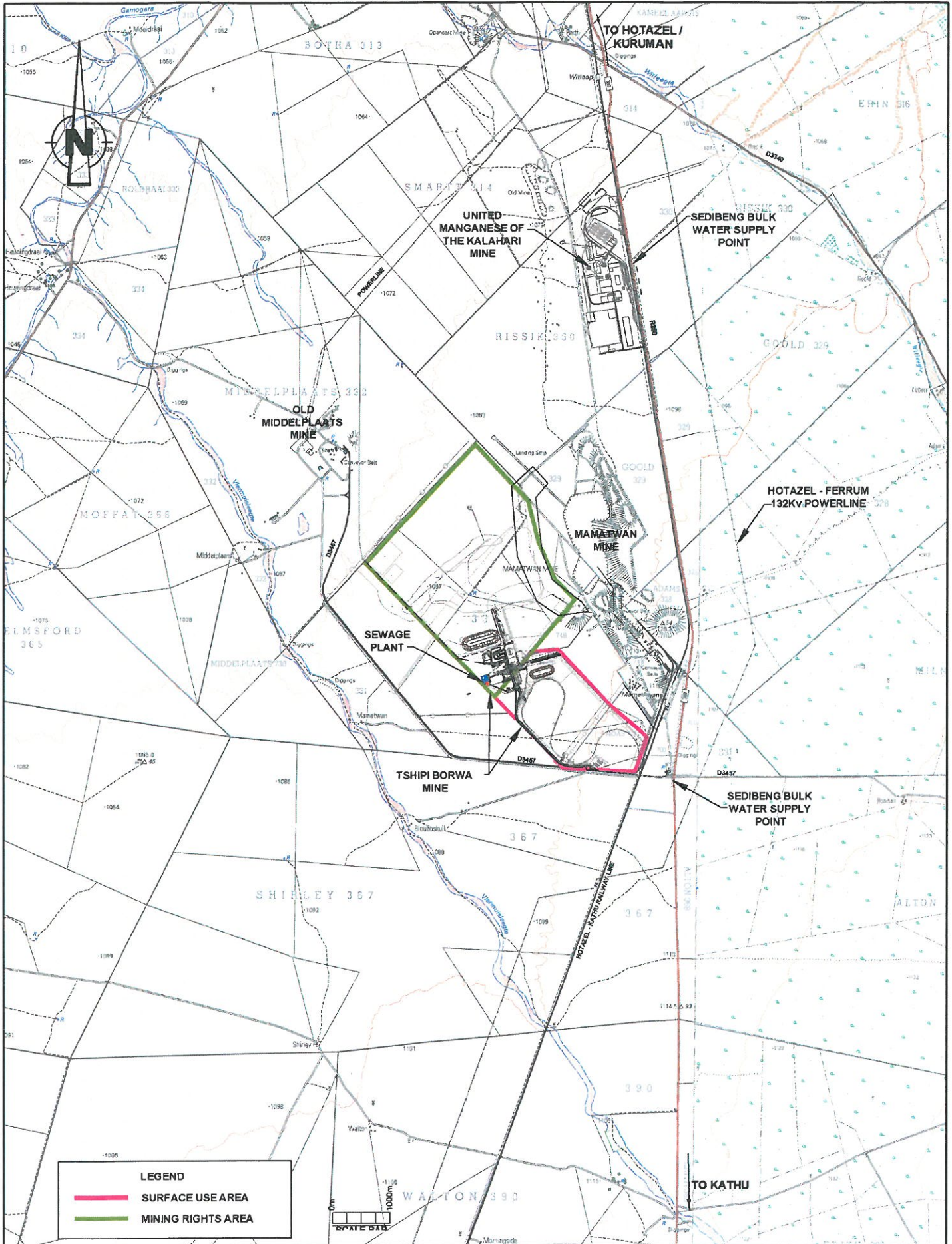
Private Bag X 447, Pretoria, 0001. E-mail: [BRDlamini@environment.gov.za](mailto:BRDlamini@environment.gov.za) Tel. (012) 310 3897/Fax (012) 310 3573

## APPENDIX A: LOCAL MUNICIPALITIES

Local municipality	Contact person	Postal address	Contact details
Joe Morolong Local Municipality	Tshepho Bloom (Municipal Manager)	Private Bag X 117 Mothibistad 8474	053 773 9300 <a href="mailto:bloomt@joemorolong.gov.za">bloomt@joemorolong.gov.za</a>

## APPENDIX B: LOCAL SETTING







rural development  
& land reform

Department:  
Rural Development & Land Reform  
REPUBLIC OF SOUTH AFRICA

---

**Regional Land Claims Commission: Free State and Northern Cape**

4-8 Old Main Road, Hyesco Arcade Building, KIMBERLEY 8300

P.O. Box 2458, KIMBERLEY, 8300

Tel: (053) 807 5700

Fax: (053) 831 6501

---

Reference: Ryan Oliver

Date: 03/06/2013

**APPLICANT: S. L. R. Consulting**

EMAIL: ndaly@slrconsulting.com

TEL: (011) 467 0945

FAX: (011) 467 0978

**ATT: Natasha Daly**

**RE: LAND CLAIMS ENQUIRY[S]**

**PROPERTY[S] DESCRIPTION**

- 1 Farm Mamatwan No. 331, John Taolo Gaetswe District Municipality, Northern Cape Province.
- 2 Farm Moab No. 700, John Taolo Gaetswe District Municipality, Northern Cape Province.

This communiqué serves to advise your company that according to our database there are no restitution claims lodged against the above mentioned property[s] description.

We envisage that there will be new claims lodged from this year 2013 onwards.

It should however be borne in mind that our database is continuously being updated, therefore this information may be subject to change and you will be informed accordingly.

Yours in service delivery

  
PP Ms. Cindy Daryons

Chief Director: Land Restitution Support-Northern Cape

Date: 05/06/2013



## TSHIPI ENTLE MANGANESE MINING

### MINUTES OF SCOPING MEETING FOR REGULATORY AUTHORITIES

<b>DATE</b>	16h00, 30 July 2013
<b>VENUE:</b>	Hotazel Recreation Centre
<b>PROJECT:</b>	Tshipi EIA/EMP Amendment
<b>SLR COMPANY:</b>	SLR Consulting (Africa)
<b>PROJECT NUMBER:</b>	710.20008.00008
<b>PURPOSE:</b>	The purpose of the meeting was to: <ul style="list-style-type: none"><li>• introduce the proposed project;</li><li>• understand the environmental process being followed;</li><li>• raise and record environmental issues; and</li><li>• discuss possible environmental specialist investigations to be conducted for the EIA/EMP.</li></ul>
<b>ATTENDANCE:</b>	An attendance register is presented in APPENDIX 1.

#### 1. OPEN AND INTRODUCTION

Suan Mulder (SM) from SLR Consulting (Africa) (Pty) Ltd (SLR) opened the meeting and welcomed all delegates. Also present from SLR was Caitlin Pringle (CP). Present from Tshipi were Jeff Leader (JL) and Nthabaleng Paneng (NP). SM explained that due to the limited attendance, the meeting would be an informal discussion between the SLR team, representatives from Tshipi and IAPs. All IAPs were provided with a copy of the presentation.

#### 2. APOLOGIES

Mr Ryan Oliver from the Department of Rural Development and Land Reform and Mr Itumeleng Bulane from the Department of Public Works, Roads and Transport indicated that they would not be able to attend the meeting. Other Departments invited to attend the meeting included the following:

- Department of Mineral Resources;
- Department of Environment and Nature Conservation;
- Department of Environmental Affairs;
- Department of Agriculture;
- Department of Water Affairs;
- Joe Morolong Local Municipality; and
- John Taolo Gaetsewe District Municipality

#### 3. PRESENTATION

Using A1 maps of the proposed project area and a hard copy of the presentation, SM discussed the proposed project on the environmental assessment process that is currently underway for the Tshipi Borwa Mine. A copy of the presentation is attached in APPENDIX 2.

#### **4. DISCUSSION**

A number of issues were raised by Mr Pyper during the meeting. These have been recorded in the table attached as APPENDIX 3. Where a response was provided the response has been included in the table.

#### **5. THE WAY FORWARD**

SM outlined the way forward as follows:

- Distribute scoping report (approximately August 2013)
- Regulatory authority and public review (40 days)
- Specialist EIA investigations (over next 6 months)
- Distribute EIA and EMP report (approximately December – January 2013)
- EIA/EMP feedback meetings (approximately January 2013)
- Distribute notifications of decisions

EIA Process Logistics:

Distribution of summaries, newsletters, notice of decision:

- By post and/or e-mail to registered IAPs (English and Afrikaans); and
- SMS notification

Distribution of complete reports

- Joe Morolong Local Municipality;
- John Taolo Gaetsewe District Municipality;
- Hotazel Public Library;
- SLR's offices in Johannesburg; and
- Electronically on a CD, made available to IAPs on request.

Registered IAPs will receive invitations to meetings, summary documents, newsletters and records of decision via post and/or email. Complete reports will be placed at the locations located above. Smses will be sent to the registered cell phone addresses indicating that reports are available at the indicated locations.

#### **6. CLOSE**


The meeting was closed by SM.

**APPENDIX 1: ATTENDANCE REGISTER**

Name and Surname	Interest in project	Postal address	Contact numbers	E-mail
Suan Mulder	SLR	P.O. Box 1596 Cramerview 2060	011 467 0945	<a href="mailto:smulder@slrconsulting.com">smulder@slrconsulting.com</a>
Caitlin Pringle				<a href="mailto:cpringle@slrconsulting.com">cpringle@slrconsulting.com</a>
Jeff Leader	Tshipi Borwa Mine	Farm Mamatwan P O Box 2098 Kathu 8446	27 53 723 1024	<a href="mailto:jpleader@intekom.co.za">jpleader@intekom.co.za</a>
Nthabaleng Paneng			053 739 4700	<a href="mailto:nthabaleng@tshipi.co.za">nthabaleng@tshipi.co.za</a>
Andrew Pyper	Landowner Middelplaats	P O Box 132 Kuruman	083 231 0479 082 452 4323	<a href="mailto:pyperp@iafrica.com">pyperp@iafrica.com</a>



## APPENDIX 2: PRESENTATION



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## Environmental Impact Assessment for the proposed changes to surface infrastructure at the Tshipi Borwa Mine

### Public Scoping Meeting

30 July 2013


### Agenda

- Welcome and opening
- Overview of the proposed project
- Environmental process overview
- Overview of the existing status of the environment
- General discussion
- Close

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### Meeting protocol

- Please switch cell phones off or onto a silent setting
- There will be a dedicated question and answer session
- Before asking a question, please raise your hand and state your name clearly so that we may correctly record it in the minutes
- This is a Scoping Meeting, and therefore the emphasis is on recording the questions and comments correctly, so that they may be addressed in the Scoping Report or Environmental Impact Assessment. We do not have all the answers at this stage.

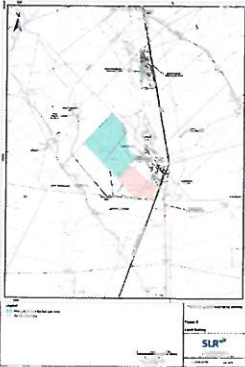
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### Overview of proposed project

- Tshipi 4 Nile Manganese Mining currently operates the developing Tshipi Borwa Mine located on the farms Mamabwen 331 and Moab 700
- The mine currently holds an approval (NC/30/5/12/2/0208MR) from the DMR and an approval (NC/KGAKATHU/37/2008) issued by the DENC
- Tshipi is proposing to amend its approved EIA and EMP to cater for changes to its approved infrastructure layout that have already taken place, as well as proposed changes. Changes that have already taken place include:
  - o the relocation of the two waste rock dumps;
  - o the relocation of the office, plant, workshop and related infrastructure;
  - o design and capacities change of the approved stormwater dams; and
  - o changes in the design of the railway siding.
- Proposed changes to the approved infrastructure layout include:
  - o the establishment of an additional stormwater dam
  - o the relocation of the low grade and fines stockpiles;
  - o the expansion of the existing sewage treatment plant;
  - o the expansion of the existing diesel storage facility;
  - o development of a boundary mining venture with the Mamabwen Mine; and
  - o a mixture of gravel, sand, waste rock and tailings material to backfill a portion of open pit.


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### Local setting of proposed project



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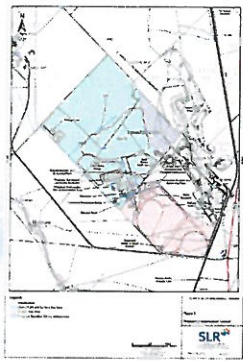
### Approved infrastructure layout




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### Proposed infrastructure layout



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### Environmental Process (1)


**What?**

- Assessment of the potential impacts of the proposed project on the environment
- Environment definition (water, soils, air etc)
- Implementing appropriate management measures

**Why?**

- Legal requirement
- It is the right thing to do

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### Environmental Process (2)

**How?**

- Scoping phase
  - Identification and participation of IAPs (landowners, adjacent landowners, land users, NGO etc.)
  - Identification of potential impacts
  - Sets out potential impacts to be assessed further and how these investigation will be done
  - Compilation of scoping report
- Environmental Impact Assessment (EIA) and Environmental Management Programme (EMP) phase
  - Assessment of impacts of the proposed project on the environment
  - Identification of management measures
  - Compile EIA and EMP report

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### Environmental Process (3)


**Permissions to be obtained:**

- Environmental authorisation (DENC)
- Decision on EMP Amendment (DMR)
- Water use licence for new water uses (DWA)
- Waste licence for the expansion of the sewage plant (DEA)
- Air Emissions License for the expansion of the diesel storage facility (DENC)

**Local authorities**

- Joe Morolong Local Municipality
- John Taolo Gaetsewe District Municipality


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### Status of the existing environment

- **Geology:** Tshipi Borwa Mine is located in the Klahari Basin which is a manganese hotazel iron formation
- **Climate:** Northern Steppe Climatic Zone. Semi arid regions characterised by seasonal rainfall (386mm to 455mm) generally in form of thunderstorms. Prevailing wind direction is southeast.
- **Topography:** The mine is located in a relatively flat area with a gentle slope towards the North West. The elevation on site varies from 1087 m to 1107 m above mean sea level (mamsl).
- **Soils and land capability:** Soils types are homogeneous in terms of texture, structure, and soil depth and consist of deep (>1.5m) windblown sand of the Hutton soil form. Soils at the mine have a low cultivation potential due to the high infiltration rates associated with sandy soils.


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### Status of the existing environment

- **Land use:** Land uses surrounding the mine include a combination of livestock grazing, game farming, mining, railway and sparsely situated residences.
- **Animal life:** Several bird and mammal species are likely to occur on site. These include, the Northern Black Korhaan, the Longbilled lark, the Grey hornbill, Chat Flycatcher, Steenbok, Duiker, Suricate, White-tailed Mongoose, Molerat, and ground squirrels. It should be noted that the animal life population in general has been disturbed due to the existing Tshipi Borwa Mine, Mamatwan and UMK activities and pre-mining activities such as farming and prospecting.

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### Status of the existing environment

- **Plant life:** The Tshipi Borwa Mine falls within the Kathu Bushveld and consists of three habitat/vegetation types. These habitat/vegetation types include the *Acacia haematoxylon Savannah*, *Mixed Acacia Savannah* and *Grewia Flava Scrub*.
- **Surface water:** The mine is located within Quaternary Catchment D41K. The closest watercourses to the mine are the non-perennial Vlermuisleegte (±2km southwest), the non-perennial Witleegte (± 10km northeast), and the non-perennial Ga-Mogara (± 6 km west). Surface water in the area may be used for livestock watering and limited domestic purposes. However, no reliable surface water use is possible from any of the watercourses (Gamogara, Witleegte, Vlermuisleegte Rivers) due to their non-perennial nature and related seasonal river flow.

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### Status of the existing environment

- **Groundwater:** Two aquifers are present beneath the mine, namely a shallow aquifer comprising Kalahari sands and calcrete and a deeper fractured aquifer comprising Dwyka clay and Mooidraai dolomite formation. The average ground water level at the mine ranges from 20 m to 45m below ground level. Groundwater flows are in a west-north-west direction.
- **Air quality:** Apart from the current Tshipi Borwa Mine operations, various activities in the area have potential to contribute to the emission of pollutants. These pollutants include: fugitive dust from veld fires, wind erosion from open areas, dust generated by dirt road travelling, agricultural activities, vehicle tailpipe emissions, emissions from neighbouring mines, household fuel combustion, and rail-related fuel combustion

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### Status of the existing environment

- **Noise:** The greater area is generally defined by rural features and is not subjected to elevated noise levels. Existing noise in the project area is mainly caused by surrounding farming activities, localised traffic, train movements, and mining operations.
- **Visual:** The Tshipi Borwa Mine is located within the flat open plains of the Kalahari. The site is rural in nature as it is sparsely populated with farmhouses scattered throughout the area. The existing mining operations (on site and adjacent to the site) and construction activities have already affected the sense of place and natural visual character of the area.
- **Heritage/cultural & palaeontological resources:** No significant heritage resources or cultural materials have been found to occur at the Tshipi Borwa Mine.

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### Status of the existing environment

- **Socio-economic:** Farm houses and farm worker residences are the closest settlements to the mine and are located within a 2km radius. There is a high level of unemployment with a dependency on subsistence agriculture, the public sector, seasonal workers and employment in the mining sector. Water provision and sanitation remains a challenge, mostly in the rural areas.

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### Anticipated environmental aspects associated with the proposed project

- Loss and sterilisation of mineral resources (associated with backfilling of tailings material in the open pit)
- Hazardous excavations and infrastructure
- Soil and land capability
- Biodiversity (Loss of Fauna and Flora)
- Surface water (Alternation of drainage patterns and pollution of surface water resources)
- Groundwater (Contamination of groundwater)
- Air (Contribute additional air pollution)
- Visual
- Heritage
- Land use
- Socio-economic (Positive and negative socio-economic impacts)

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### Questions, Comments and Queries

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**Way forward**

Scoping Report public and authority review (August 2013)

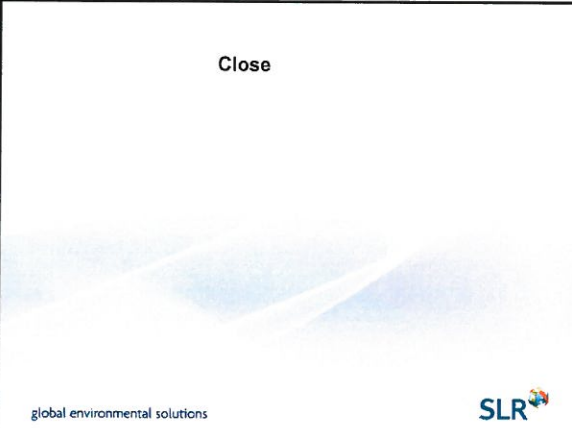
- Summary (English/ Afrikaans); per post and e-mail
- Scoping report (English); at public venues
- Suggested venues:
  - o Joe Morolong Local Municipality
  - o John Taolo Gaetsewe District Municipality
  - o Hotazel Public Library
  - o Kathu Public Library
- Regulatory authorities and IAPs: 40 days to submit comments


Conduct specialist investigations and complete EIA

Stakeholder feedback meetings in EIA Phase and opportunity to review EIA and EMP report

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**Close**



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**APPENDIX 3: RECORD OF ISSUES RAISED AND RESPONSES GIVEN**

ISSUE RAISED	NAME	RESPONSE GIVEN
<p><b>Procedural issues</b></p> <p>If all conditions of the mining license are applied then is it correct to say that there will be no additional changes? For example there will not be changes to include a housing scheme etc?                      I am not against mining or any type of development, but it is important to ensure that that all parties are taken into consideration when such projects go ahead.</p>	Andrew Pyper	<p>There are no additional changes proposed. The proposed changes are as have been laid out in the presentation and discussed during today's meeting.                      It has been noted that you would like to continue being consulted in the EIA process going forward.</p>
<p><b>Technical/project-related issues</b></p> <p>There are no ablation facilities in the northern area of the Tshipi site. The mine staff are jumping over the fences and using my veld as a lavatory. There are also instances of littering.                      Will there be any encroachment onto my property? I am concerned that there will be dumping of waste rock on my property.</p>	Andrew Pyper	<p>Your concern regarding the lack of ablation facilities has been noted. Tshipi will investigate and address the matter going forward. Tshipi will also address the issue surrounding littering.                      There will be no dumping and no encroachment onto your property. Tshipi is not permitted to extend beyond its mining rights area. The pit will be developed in a north westerly direction and legislation stipulates that there must be a 15 m boundary between opencast operations and neighbouring farms.                      The depth of the ore body ranges from 130 to 270 metres.</p>
<p>How deep is the ore body?</p> <p>I would like to propose that a micro-climatic investigation be undertaken with regards to the effect that opencast mining has on the micro-climate. The opencast mining results in a heat island whereby the incoming solar is reflected differently to if it were to fall onto flat ground. This therefore affects the circulation of air and affects the climate on a localised scale. Backfilling would help to lessen this by reducing the void into which the sun's heat pours and it would allow for the heat energy to be reflected in a more normal manner.</p>	Andrew Pyper	<p>It has been noted that you would like a micro-climate investigation to be undertaken. Tshipi will take this into consideration when deciding what additional specialist studies should be conducted.</p>
<p><b>Air pollution issues</b></p> <p>What specialist work was undertaken for the air emissions license?</p>	Andrew Pyper	<p>An air quality impact assessment will be carried out by an air quality specialist.</p>
<p><b>Blasting issues</b></p> <p>The portion of my farm which borders the mine is the best grazing land that I have. Cattle are trying to get away from the blasting and this means that they stampede and push through the fences. If we know what times blasting is going to occur at</p>	Andrew Pyper	<p>Blasting at Tshipi is done in parallel with the blasting at Mamatwan. This takes place at a prescribed time, normally 13h00 or 17h00.</p>

ISSUE RAISED	NAME	RESPONSE GIVEN
Tshipi we can take corrective action.		
<p><b>Biodiversity issues</b></p> <p>Vegetation is susceptible to both diesel fumes as well as diesel spills. Some sort of investigation should be undertaken in which the issue is studied from a grazing perspective and the impact that this will have on livestock. Tshipi should take remedial measures to avoid or lessen the impact that such spills and emissions have on surrounding flora.</p>	Andrew Pyper	The diesel which is stored on site for refuelling of machinery and generators is contained and banded. If and where spills or leaks do occur, Tshipi will follow the necessary clean up procedure so as to minimise the impacts associated therewith.
<p><b>Rehabilitation issues</b></p> <p>In the Kalahari, when the surface is disturbed, this takes years and years to recover. To establish even a small amount of vegetation takes up to 20 years and during this time only the pioneer species will recover. The better grasses and shrub species may take much longer. Existing farming activities have already resulted in the disturbance of naturally occurring grass species and, due to overgrazing and mis-management, many species have become threatened. Each time there is some sort of disturbance relating to mining, this existing effect is compounded.</p>	Andrew Pyper	Tshipi will ensure to limit vegetation clearing and disturbance to what is absolutely necessary. Rehabilitation will be conducted in accordance with the EMP.





## **Interim Comment**

### **In terms of Section 38(8) of the National Heritage Resources Act (Act 25 of 1999)**

Attention: Natasha Daly  
SLR Consulting (Africa)  
PO Box 1596  
Cramerview  
2060

### **Proposed amendment to the Tshipi é Ntle Manganese Mining Tshipi Borwa Mine on farms Mamatwan 331 and Moab 700, south of Hotazel in the John Taolo Gaetsewe District Municipality, Northern Cape Province.**

We have received notification of your intention to expand the infrastructure at the Tshipi Borwa Mine located on the farms Mamatwan 331 and Moab 700, to the south of Hotazel in the John Taolo Gaetsewe District Municipality.

In terms of the National Heritage Resources Act (NHRA), no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. This means that before such sites are disturbed by development it is incumbent on the developer (or mine) to ensure that a Heritage Impact Assessment is done. This must include the archaeological component (Phase 1) and any other applicable heritage components. Appropriate (Phase 2) mitigation, which involves recording, sampling and dating sites that are to be destroyed, must be done as required.

Although it is stated in the Background Information Document submitted to SAHRA that no significant heritage resources or cultural materials have been found to occur at the Tshipi Borwa Mine, no indication of a professional assessment is given. SAHRA therefore requests that a full Heritage Impact Assessment is conducted prior to any development related activities occurring on site.

Consequently, the quickest process to follow for the archaeological component would be to contract a specialist (see [www.asapa.org.za](http://www.asapa.org.za)) to provide a Phase 1 Archaeological Impact Assessment Report. This must be done before any development related activities take place. The Phase 1 Impact Assessment Report will identify the archaeological sites and assess their significance. It should also make recommendations (as indicated in section 38 of the NHRA) about the process to be followed. For example, there may need to be a mitigation phase (Phase 2) where the specialist will collect or excavate material and date the site. At the end of the process the heritage authority may give permission for destruction of the sites.

SAHRA is satisfied that, as all work will involve only shallow, surface excavations, no Palaeontological Impact Assessment will be necessary.

Any other heritage resources that may be impacted such as built structures over 60 years old, sites of cultural



## Tshipi EMP Amendment

Our Ref: 9/2/055/0002

Enquiries: Kathryn Smuts  
Tel: 021 462 4502  
Email: ksmuts@sahra.org.za  
CaseID: 2904

Date: Thursday July 11, 2013

Page No: 2



significance associated with oral histories, burial grounds and graves, graves of victims of conflict, and cultural landscapes or viewscapes must also be assessed.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

---

Kathryn Smuts  
Heritage Officer: Archaeology  
South African Heritage Resources Agency

---

Colette Scheermeyer  
SAHRA Head Archaeologist  
South African Heritage Resources Agency

---

### ADMIN:

Direct URL to case: <http://www.sahra.org.za/node/124266>



The South African Heritage Resources Agency

Street Address: 111 Harrington Street, Cape Town 8000 \* Postal Address: PO Box 4637, Cape Town 8000  
\* Tel: +27 21 462 4502 \* Fax: +27 21 462 4509 \* Web: <http://www.sahra.org.za>