

## **ENVIRONMENTAL ASSESSMENT PROCESS FOR THE PROPOSED DEVELOPMENT OF AN IRON ORE MINE AND MINING EXPLORATION ACTIVITIES**

Notice is given in terms of the Mineral and Petroleum Resources Development Act, 28 of 2002, the National Water Act (NWA) 36 of 1998, the National Environmental Management Act (NEMA), 107 of 1998, NEM: Air Quality Act (AQA) 39 of 2004, NEM: Waste Act (WA) 59 of 2008 of intent to carry out the activities described below. In this regard, applications for environmental authorisations must be submitted to the relevant departments (Limpopo Department of Economic Development, Environment and Tourism (LEDET), Limpopo Department of Mineral Resources (DMR), National Department of Environment Affairs (DEA) and the Waterberg District Municipality). Given the nature of the project, both scoping and environmental impact assessment procedures will be followed.

### **Reference numbers and contact people**

DMR: Mr Mpoi Charles Hamese (Reference No. LP30/5/1/2/2/185MR)  
 LEDET: Ms J Nyathi (Reference No. 12/1/9-7/2-W110) (EIA)  
 DEA: Ms Zingisa Phohlo (Reference No. 12/9/11/L368/5) (waste license application)

### **Name of proponent**

Turquoise Moon Trading 157 (Pty) Ltd (Turquoise Moon)

### **Description of proposed activity**

Turquoise Moon Trading has exploration and mining interests in two areas in Limpopo, referred to as the Moonlight and De Loskop Iron Ore project. Turquoise Moon plans to conduct exploration activities in the De Loskop project area and to develop a new iron ore mine including mineral processing operations in the Moonlight project area. The proposed mine in the Moonlight project area will include various support infrastructure and services including a number of "identified" activities in terms of various environmental regulations. These may include the following activities:

- Listed Activities in terms of NEMA Regulation 386:1 (a) (b) (c) (k) (l) (n) (q(l)) (v), 7, 12, 13, 14, 15, 16, 17, 20.
- Listed Activities in terms of NEMA Regulation 387: 1 (a) (c) (e) (h) (j) (l) (s), 2, 5, 6.
- Waste Activities in terms of NEM:WA Schedule: Category A3 (1) (2) (4) (11) (18), B4 (7) (11)
- Water Uses in terms of Section 21 of the NWA: 21 (a) (b) (f) (g) (j) (k)
- Listed Activities in terms of NEM:AQA: Regulation 248: 4.7, 4.8, 4.10

### **Location of the proposed project**

The De Loskop project area lies approximately 50 km north of Polokwane on the farms Meanderthal 188LS, Lekkerlach 206LS, Soho 204LS, Van Wyksput 201LS, Persie 200LS, Westheim 191LS and Triest 192LS in the Aganang and Molemole Local Municipalities within the Capricorn District Municipality of the Limpopo Province. The Moonlight project area is located approximately 60 km north of Lephalale (Ellisras), on the farms Goudafontein 76LR, Julietta 112LR, Moonlight 111LR and Marnitzkraal 54LP in the Lephalale Local Municipality within the Waterberg District Municipality of the Limpopo Province.

### **Name of consultant to contact**

Metago Environmental Engineers (Pty) Ltd  
 Contact people: Mrs Alex Pheiffer, Ms Natasha Daly and Ms Stella Moeketse  
 Postal Address: PO Box 1596, Cramerview, 2060  
 Tel: (011) 467-0945 Fax: (011) 467-0978 E-mail: [turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)

### **Notice of public information-sharing scoping meetings**

The details for the information-sharing scoping meetings are as follows:

	<b>De Loskop project area</b>	<b>Moonlight project area</b>
Date:	Friday 1 October 2010	Saturday 2 October 2010
Venue:	Dendron Primary School	Koedoesrand District Farmer's Union Hall, Baltimore
Time:	17h00 (registration from 16h30)	10h30 (registration from 10h00)
Language:	English (with Afrikaans and Sepedi translations available)	English (with Afrikaans and Sepedi translations available)

### **Date of publication of this notice**

27 August 2010

### **Registration of IAPs and submission of comments**

To ensure that you are identified as an interested and/or affected party (IAP), please submit your name, contact information and interest in the matter in writing to the contact person(s) given above within 14 days of publication of this advertisement. To ensure that your comments are included in the scoping report, these should be provided at the public information-sharing scoping meetings (described above) and/or be sent in writing to the above consultant by Saturday 2 October 2010.

### **Additional information**

To obtain additional information about the proposed project and/or the environmental assessment process, please contact the above mentioned consultants.



## Skaars wild laat rekords spat

Rekords het gespat by Trophy Breeders se veiling van skaars wildsoorte naby Vaalwater verlede Vrydag.

Die opkoms van meer as 600 mense van oor die hele land en Namibië het bewys hoe groot die aanvraag is na kwaliteit skaars wildsoorte. Daar het 12 vastevlerk vliegtuie en 12 helikopters opgedaag.

In sy verwelkoming het Dries Visser gesê dat Trophy Breeders gestig is om te verseker dat gehalte skaars wildspesies sal bly voortbestaan in Afrika. As telers, sê hy, is hulle voorneme om die diversiteit van gehalte geneties in die skaarser wildsoorte te verseker deur selektiewe teling en die aanbieding van gehalte diere op die veilings van Trophy Breeders.

Die verkopers het bestaan uit 6 bekende en erkende wildtelers by name Dries Visser Game Breeders (Dries Visser Snr & jr.), Exotic Game Breeders (Lee Cannata & Miguel Ferreira), Nyumba Game (Norman Adams), Motswere Game Breeders (Jan & Elsa van den Heever), Pymat Game Farm (Pieter Prinsloo), Klipvlei Game Breeders (Riaan Swart) en gasverkopers Silent Valley Management Company, Welgevonden Natuurreservaat en Mpatamacha Wildvangdienste.

Tydens die veiling is uitstaande pryse behaal en 6 nuwe S A Rekords is verbeter en die omset van die veiling was oor die R33 000 000,00.

Die veiling was aangebied deur Vleissentraal Bosveld en was gehou 30km vanaf Vaalwater op die Melkriver pad by die uiters moderne wildsentrum van Mpatamacha.

Van die pryse wat behaal is, was as volg:

Goue Wildebees koeie – R300 000,00

Zambië Swartwitpens verse – R750 000,00

Familie groep Livingstone Elande – R31 000,00

Livingstone Eland Bul – R62 500,00

Buffel Koeie – R920 000,00



# CV's@WORK

Akasia Building No 1, C/o OR Tambo & Jan Louis Botha Ave, Lephale, 0555  
Tel: 014 763 1088 / Fax: 014 763 1248

## POSTE BESKIKBAAR:

DRINGEND GESOEK!!!!!!

**"RIGGING" OPLEIDINGSBEAMPTTE**, Rooi seël met min 4 jaar vakman/opleidings ondervinding, R25 000 – R20 000k. Engels magtig, "Train the Trainer", assessor en toesighoudende ervaring sal voordelig wees. Die suksesvolle kandidaat sal verantwoordelik wees vir die opleiding van die leerders tot op die punt waar hulle vaktoets kan skryf.

**ONTVANGS**, Mans persoon gesoek vir gevestigde maatskappy in die Toerisme bedryf. Matriek, R4 000 – R3 500, min 2 – 3 jaar relevante ondervinding, rekenaarvaardig, goeie telefoon etiket. Afrikaans & Engels sprekend met die vermoë om onafhanklik te kan werk.

**EIENDOMS BESTUURDER/KOËRDINEERDER**, Matriek of relevante kwalifikasie, R8 500 – R8 000k + byvoordele, min 2 – 3 jaar ondervinding in die bestuur/hantering van probleme met kommersiële/residentiele verhuurings, Pastel, goeie kommunikasie vaardighede, Engels en Afrikaans sprekend.

Stuur CV's na [martie@cvsatwork.co.za](mailto:martie@cvsatwork.co.za) / 014 763 1248

NB: Aanvaar u aansoek as onsuksesvol indien u geen terugvoer ontvang het binne 14 dae nie.

## ENVIRONMENTAL ASSESSMENT PROCESS FOR THE PROPOSED DEVELOPMENT OF AN IRON ORE MINE AND MINING EXPLORATION

### ACTIVITIES

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### Additional information

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**TURQUOISE MOON TRADING 157 (PTY) LTD**

**MINUTES OF FOCUSSED SCOPING MEETING HELD WITH MOONLIGHT  
LANDOWNERS**

<b>DATE</b>	Monday, 23 August 2010
<b>VENUE:</b>	Annaheim Guest House, 124 Tom Naude, Mokopane
<b>PROJECT:</b>	Proposed Moonlight and De Loskop iron ore project
<b>PROJECT NUMBER:</b>	T020-02
<b>PURPOSE:</b>	The purpose of the meeting was to: <ul style="list-style-type: none"><li>• inform landowners of the proposed project and environmental assessment process;</li><li>• raise and record environmental issues; and</li><li>• identify possible environmental specialist investigations.</li></ul>
<b>APOLOGIES:</b>	Mr Corneels Coetzee
<b>ATTENDANCE:</b>	See attendance register attached in Appendix 1.

**1. OPEN AND INTRODUCTION**

The meeting was opened by Alex Pheiffer (AP) from Metago Environmental Engineers (Pty) Ltd (Metago), the independent environmental consultants who were appointed to conduct the environmental impact assessment (EIA) process. She welcomed all attendees and thanked them for their time. She introduced the project team: Natasha Daly (ND) and Stella Moeketse (SM) from Metago. The meeting was held in Afrikaans and English. Upon registration, all attendees were provided with a copy of the background information document for the proposed project.

**2. PRESENTATION**

ND gave a presentation on the proposed project and the environmental authorisation process being followed. A copy of the presentation is attached in Appendix 2.

**3. DISCUSSION**

A number of issues were raised by interested and/or affected parties (IAPs). These have been recorded in Table 1 below. Where a response was provided this has also been included in the table. Given the nature of the scoping meeting, not all questions could be answered during the meeting.

**TABLE 1: ISSUES RAISED BY IAPS**

<b>Issue</b>	<b>Raised by whom</b>	<b>Response given by AP</b>
<b>Groundwater</b>		
Where will the mine source its water from?	Dr C Pienaar	The mine is currently busy with a water supply study in the Moonlight area. The outcome of the study will be included in the EIA/EMP report.
<b>Socio-economic – employment</b>		
Where will the proposed employees stay?	Mr Du Plessis	This information is still unknown at this stage.
Will the mine consider local procurement service?	Dr C Pienaar	Your request will be forwarded to Turquoise Moon for consideration.
	Mr Du Plessis	
<b>Socio-economic – livelihood</b>		
We are concerned about the increase in crime.	Mr Du Plessis	Noted.
We would like to know what is happening with regards to how our properties will be purchased or leased.	Dr C Pienaar	Noted.

**4. THE WAY FORWARD**

The following way forward was agreed to at the meeting:

- Metago will be holding public scoping meeting in October 2010 for both the Moonlight and De Loskop project areas.
- The scoping reports will be made available for public review in October 2010. A hard copy of the report will be sent to all the project landowners. A summary document of the report will be sent to all registered IAPs.
- IAPs will be notified when the reports will be available for review as well as the submission dates for comments.

**5. CLOSE**

AP thanked everyone for attending and closed the meeting.

**APPENDIX 1: ATTENDANCE REGISTER**

Name	Interest	Postal Address	Telephone	Email / Fax
Alex Pheiffer	Metago Environmental Engineers (Pty) Ltd – project manager	PO Box 1569 Cramerview 2060	011 467 0945	<a href="mailto:alex@metago.co.za">alex@metago.co.za</a>
Natasha Daly	Metago			<a href="mailto:natasha.daly@metago.co.za">natasha.daly@metago.co.za</a>
Stella Moeketse	Environmental Engineers – project assistants			<a href="mailto:stella.moeketse@metago.co.za">stella.moeketse@metago.co.za</a>
Andre Du Plessis	Landowner - Gouda Fontein 76LR, Julietta 112LR, Portion 3 Moonlight 111LR, Portion 2 Moonlight 111LR	PO Box 795 Polokwane 0700	015-293-4000 083-229-1886	<a href="mailto:andre@bbgroup.co.za">andre@bbgroup.co.za</a>
Dr C Pienaar	Landowner -	-	083 253 0526	-
Mr C Pienaar	Portion 1	-	083 672 2243	-
Mr D Pienaar	Moonlight 111LR	-	082 564 0828	-

## APPENDIX 2: PRESENTATION

**TURQUOISE MOON 157 (PTY) LTD**

**OMGEWINGSEVALUERING VIR DIE  
VOORGESTELDE MOONLIGHT EN DE  
LOSKOP YSTERERTS PROJEK**

**BESTOKOPNAME FOKUS VERGADERING**

23 AUGUSTUS 2010



**AGENDA**

- Registrasie
- Welkom en opening
- Omgewingsevalueringproses
- Projek
- Openbare vraag sessie
- Sluit



**OMGEWINGSEVALUERINGPROSES**

**Wat?**

- Evaluering van die potensiële omgewingsinvloede van die projek
- Definisie van omgewing (mense, plante, diere, water, grond, lug)
- Implementering van voorgestelde bestuursplanne

**Hoekom?**

- Wetige noodigheid
- Dit is die regte ding om te doen

**Hoe?**

- Deelneming van belanghebbende en/of geaffekteerde party (BGP)
- Spesialis ondersoek
- Rapportering
- Besluitingsproses



**OMGEWINGSEVALUERINGPROSES**

**Wie neem deel in the proses?**

- Projekvoorsteller (*Turquoise Moon*)
- Omgewingsprojekspan (*Onafhanklike firma van omgewingskonsultante en gespesialiseerde konsultante*)
- Belanghebbende en/of geaffekteerde party (BGP)



**OMGEWINGSEVALUERINGPROSES**

**Wie besluit of the projek voort gaan of nie?**

- Departement van Mineraal Hulpbronne (DMH/ DMR)
- Nasionale Departement van Omgewingsake
- Departement van Ekonomiese Ontwikkeling, Omgewing en Toerisme (DEOOT/ DEDET)
- Departement van Water, Omgewingsake (DWOS/ DWEA)
- Nasionale Departement van Landbou
- Limpopo se Departement van Parke en Toerisme
- Departement van landsake
- Suid-Afrika se Erfenis-hulpbronnagentskap (SAHRA)
- Limpopo hulpbronnagentskap
- Limpopo Departement van Paaie en Vervoer
- Plaaslike owerhede



**OMGEWINGSEVALUERINGPROSES**

**Verskillende verslae?**

- Bestekopname/ Trefwydte (Scoping report)
- Omgewingsinvloedbepaling (OIB) en 'n omgewings-bestuursprogram (OBP) (EIA/EMP report)



## OMGEWINGSEVALUERINGPROSES

### Die doel van vandag se vergadering

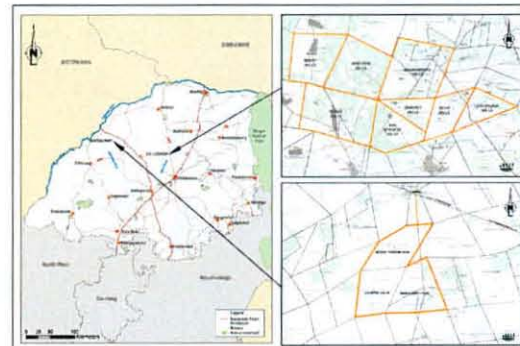
- Om die proses te verstaan
- Identifiseer alle omgewings sake
- Identifiseer moontlike spesialis ondersoeke

### Hoe help dit jou?

#### Bestekopname verslag

- Stel uit die omgewings sake wat moet ondersoek word
- Stel uit hoe ondersoeke gedoen word

## PLAASLIKE LIGGING VAN PROJEK



## DESKRIPSIE VAN DIE MOONLIGHT PROJIEK

**Nuwe mynbou areas** – Gouda Fontein, Moonlight, Julietta

**Bron** – ystererts, nikkell, mangaanerts, kalksteen en marmar

**Mynboumetode** – oopgroef-mynboumetodes

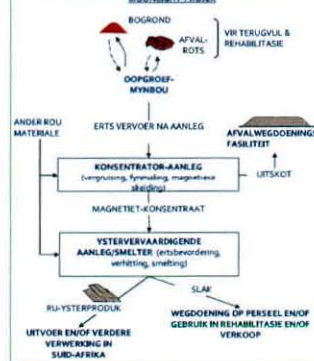
**Produksiekoers** – ±83 000 ton per maand

**Mynlewe** – uitleg van 30 jare

**Vervoer van erts** – vragmotors langs bestaande vragpaaie

**Infrastruktuur** – mineraal-verwerkingsaanleg, mynafval-wegdoeningsfasiliteite en verwante ondersteunende dienste

## VEREENVOUDIGDE KONSEPTUELE PROSESDIAGRAM VAN DIE MOONLIGHT-PROJIEK



## POTENSIËLE OMGEWINGSINVLOEDE

- Invloed op die biodiversiteit van plante en diere
- Lug besoedeling (Toename van stofvlakke)
- Visuele impak
- Verandering van topografie
- Hydrologie
- Grondwater besoedeling en beskikbaarheid
- Toename in geraasvlakke

## POTENSIËLE OMGEWINGSINVLOEDE

- Invloed van skietwerk aktiwiteite
- Invloed op argeologiese hulpbronne
- Toename van verkeer
- Invloed op grondgebruik
- Invloed op gronde en omliggende grondgebruik
- sosio-ekonomiese impakte



## VRAAG SESSIE



## PAD VOORENTOE

### Openbare bestekopname-vergadering

- De Loskop: Vrydag 1 Oktober, Dendron Laerskool
- Moonlight: Saterdag 2 Oktober, Koedoesrand-distrik se Boereverenigingsaal

### Sirkuleer: (Oktober 2010)

- Bestekopnameverslag (scoping report)
- Opsomming (in Afrikaans): per e-pos/ pos

Regulerende owerhede en BGPs kommentaar – 40 dae

### Specialis ondersoeke

### Sirkuleer: (Maart/ April 2011)

- Omgewingsinvloedebeplanning/ omgewingsbestuursprogram
- Opsomming (in Afrikaans): per e-pos/pos

Regulerende owerhede en BGPs kommentaar – 40 dae

Sirkuleer kennisgewing van rekord van besluit aan BAPs



## SLUIT





**TURQUOISE MOON TRADING 157 (PTY) LTD**

**MINUTES OF A MEETING HELD WITH GA-SELEKA TRIBAL AUTHORITY COUNCIL**

<b>DATE:</b>	Thursday, 14 October 2010
<b>VENUE:</b>	Ga-Seleka Tribal Authority Hall, Lephalale, Limpopo Province
<b>PROJECT:</b>	Proposed Moonlight and De Loskop Iron Ore Project
<b>PROJECT NUMBER:</b>	T020-02
<b>PURPOSE:</b>	The purpose of the meeting was to: <ul style="list-style-type: none"><li>• inform the members of Ga-Seleka Tribal Authority about the proposed project, environmental assessment process;</li><li>• have input from the members of Ga-Seleka Tribal Authority; and</li><li>• agree on the way forward.</li></ul>
<b>ATTENDANCE:</b>	See attendance register attached in Appendix 1

**1. OPEN AND INTRODUCTION**

Andrew Mocheko (AM), the Acting Secretary to the Administrator of Ga-Seleka Tribal Authority Council opened the meeting and introduced Stella Moeketse (SM) from Metago Environmental Engineers (Pty) Ltd (Metago). SM introduced project team present at the meeting: Mashadi Monaledi (MM) from Metago. All the members of Ga-Seleka Tribal Authority Council introduced themselves; a copy of the attendance register is attached in Appendix 1.

SM highlighted that Metago is an independent firm of environmental consultants that has been appointed by Turquoise Moon Trading 157 (Pty) Ltd (TMT) to conduct the environmental assessment process for the proposed project. The meeting was held in Setswana.

**2. PROJECT AND ENVIRONMENTAL ASSESSMENT PROCESS OVERVIEW**

SM gave an outline of the proposed project and the environmental authorisation process being followed. The information shared is the same as the information shared at the scoping meetings.

**3. DISCUSSION**

SM opened the meeting for general discussion. All issues raised by the attendees present at the meeting, as well as responses given by the project team, are included in Table 1 below.

**TABLE 1: ISSUES RAISED DURING THE MEETING AND RESPONSES GIVEN BY THE PROJECT TEAM**

Issue	By whom	Response given by the project team
<b>Procedural related issues</b>		
Metago has enlightened us with regards to potential developments on the neighbouring farms therefore let us as the tribal authority and as well as the members of the community discuss the proposed project amongst ourselves before commenting.	Mr Moroka	Noted.
The council must consult the community privately regarding the project.		Noted.
This is a big project that you are talking about and we cannot give proper input at such short notice. Let us take this day as an introduction to the proposed project.	Mr Molokomme	Noted.  The main aim of this meeting was to introduce the proposed project and the process that Metago is currently running to the leadership of Ga-Seleka Tribal Authority. This meeting is also meant to provide input in terms of the consultation process going forward.
We would like to have another meeting whereby all the constituencies of this tribe will be present. During the meeting, the project and its impacts can be presented so that the people can comment.		Noted.
We want the process to include all 24 of our villages.		It is Metago's intention to hold a public meeting with the broader community. We hope that the council can facilitate the process.
We want the process to be fair and transparent.		Metago would also like to distribute the background information documents (BIDs) prior to the meeting so that community members could be informed of the project prior to the public meeting and therefore be able to provide input accordingly.
Each person in the tribe has the right to information on the proposed project. There is a sense of ownership. The tribal council may get into trouble for holding our own meetings without the communities' knowledge. Let us involve Metago in the consultation of the constituencies.		
Please note that there is a strict dress code. All women coming to the tribal office must wear headscarves and dresses.	Mr Mocheke	Noted.
It is customary to bring the Kgosi a gift upon a first meeting.		Noted.
We are BaTswana people and would like the BIDs and summaries to be translated into Setswana.		Noted.
<b>Land related issues</b>		
The farms designated for mining in the Moonlight Project appear to be under the authority of Ga-Seleka. Land claims are under way.	Mr Moloantoa	Noted.  Metago is compiling a database of all the registered interested and affected parties (IAPs) which will be available to TMT for future use and planning. TMT will use this database and other sources of information to identify the various stakeholders who will be consulted with in due course.
Let us investigate the land claims issue and find out if the land claims include the farms mentioned as part of the proposed Moonlight Project and then give Metago feedback thereafter.	Mr Moroka	Noted. We await your feedback.

Issue	By whom	Response given by the project team
<b>Socio-economic: benefits</b>		
How will the mine benefit the people of Ga-Seleka?	Mr Molokomme	This issue will be investigated as part of the EIA process.
Are we going to benefit from the project?	Mr Mocheko	
Are the individuals from this community going to be employed by the mine?		

#### 4. THE WAY FORWARD

The following was agreed at the meeting:

- Ga-Seleka Tribal Authority Council will send comments to Metago during the process;
- Ga-Seleka Tribal Authority Council will inform its constituencies of the proposed project prior to the public meeting;
- Ga-Seleka Administrator to contact SM with regard to a date for the public meeting: the meeting is most likely to take place between 12 Nov and 16 November 2010;
- SM stated that all those who registered as interested and affected parties will have summaries of the Scoping and EIA reports sent to them and will be informed of where the full report would be placed;
- SM requested that the tribal office be utilised as the place at which the scoping and EIA reports can be accessed for public review by the community. It was agreed that the offices could be utilised; and
- Additional summaries and/or newsletters will also be left at the tribal office for anyone who might be interested in the proposed project; and
- Metago agreed to translate newsletters and summaries into Setwana.

#### 5. CLOSE

SM (Metago) and AM (Ga-Selaka Tribal Authority Council) closed the meeting.

**APPENDIX 1: ATTENDANCE REGISTER**

<b>Name</b>	<b>Interest</b>	<b>Tel/Fax/Email</b>	<b>Postal Address</b>
Stella Moeketse	Metago Environmental Engineers (Pty) Ltd	Tel:011 467 0945 E-mail <a href="mailto:stella.moeketse@metago.co.za">stella.moeketse@metago.co.za</a>	P O Box 1596 Cramerview 2060
Mashadi Monaledi		Tel: 011 467 0645 <a href="mailto:E-mail mashadi@metago.co.za">E-mail mashadi@metago.co.za</a>	
L Molokomme	Seleka Traditional Council	Cell:082 539 8109 Fax:014 764 1002	P O Box 372 Vaalwater 0530
M Mietlhako	Seleka Traditional Council	Cell:078 316 0803 E-mail:014 764 1002	P O Box 94 Seleka 0609
M J Moloantoa	Seleka Traditional Council	Cell:072 4077614	P O Box 329 Seleka 0609
M E Molefe	Seleka Traditional Council	Cell:083 644 675	P O Box 380 Seleka 0609
D L Moroka	Seleka Traditional Council	Cell:072 553 9122	P O Box 399 Seleka 0609
K A Mocheke	Seleka Traditional Council	Cell: 076 491 3300	P O Box 228 Seleka 0609
M Otsweleng	Seleka Traditional Council	Cell: 078 0133 478	P O Box 208 Seleka 0609
F Giba	Seleka Traditional Council	Cell: 084 212 5163	P O Box 94 Seleka 0609
David Moeng	Seleka Traditional Council	Cell: 072 296 0504	P O Box 228 Seleka 0609



**TURQUOISE MOON TRADING 157 (PTY) LTD**

**MINUTES OF PUBLIC SCOPING MEETING HELD IN BALTIMORE**

<b>DATE</b>	Saturday, 02 October 2010
<b>VENUE:</b>	Koedoesrand Farmers Hall, Baltimore
<b>PROJECT:</b>	Proposed Moonlight and De Loskop iron ore project
<b>PROJECT NUMBER:</b>	T020-02
<b>PURPOSE:</b>	The purpose of the meeting was to: <ul style="list-style-type: none"><li>• inform landowners of the proposed project and environmental assessment process;</li><li>• raise and record environmental issues; and</li><li>• identify possible environmental specialist investigations.</li></ul>
<b>APOLOGIES:</b>	No apologies
<b>ATTENDANCE:</b>	See attendance register attached in Appendix 1.

**1. OPEN AND INTRODUCTION**

Dr Fanie Botha (FB) from Turquoise Moon Trading 157 (Pty) Ltd (TM) opened the meeting and introduced the project team present at the meeting: Alex Pheiffer (AP), Stella Moeketse (SM) and Natasha Daly (ND) from Metago Environmental Engineers (Pty) Ltd (Metago), the independent environmental consultants who were appointed to conduct the environmental impact assessment (EIA) process. Given the large contingency of Afrikaans speaking attendees, the meeting was held in English and Afrikaans. Upon registration, all attendees were provided with a copy of the background information document for the proposed project.

**2. PRESENTATION**

AP gave a presentation on the proposed project and the environmental authorisation process being followed. A copy of the presentation is attached in Appendix 2.

**3. DISCUSSION**

A number of issues were raised by interested and/or affected parties (IAPs) present in the meeting. These have been recorded in Table 1 below. Where a response was provided this has also been included in the table. Given the nature of the scoping meeting, not all questions could be answered during the meeting

**TABLE 1: ISSUES RAISED BY IAPS**

<b>Issue</b>	<b>Raised by whom</b>	<b>Response provided by AP, unless otherwise stated</b>
<b>Procedural issues</b>		
We need to be involved throughout the entire process.	C.F. Kruger	As part of the environmental process, all IAPs registered on the database will be involved throughout the process.
How many projects that Metago has been involved in, have been approved?	Johan Vogel	Metago is not responsible for the approval of a proposed project. Metago's role is to ensure that we comply with the law and provide IAPs with the opportunity to provide input.
Should the record of decision be negative, will the mining operations be allowed to go ahead?		No. If the record of decision is negative, no mining activities will be allowed to be conducted.
We would like to consult with the specialists.	M.F. Du Preez	This can be arranged through an open day once the specialist studies are complete.
When will we be able to appeal the project?		IAPs will be notified of the appeal process and timeframes in the record of decisions that will be circulated to all IAPs registered on the database.
We would like a copy of the minutes of meeting.	Johan Vogel	The minutes as well as the issues table will be included in the scoping report that will be available for public review. The summary document will also include a copy of the issues table.
Will the report provided to IAPs during the review period be the final scoping report?	M.F. Du Preez	The scoping report that will be made available to the public is the draft scoping report. Once IAPs have submitted their comments after the 40 day review period the scoping report will be finalised to include all comments. This report is then referred to as the final scoping report which is submitted to the relevant departments for consideration.
<b>Project alternatives</b>		
It is unclear as to why the mine should be established within this area as there are other areas where mining infrastructure already exists. In addition to this we have been told that it is a low grade ore.	Danie Meyer	Alternatives will be considered as part of the environmental assessment process.
Can Turquoise Moon not find an alternative location for the project?	Joan Jackson	
<b>Ongoing communication</b>		
We propose setting up a committee that can be used during the EIA process and ongoing.	M.F. Du Preez	This would be welcomed.
<b>Project related issues</b>		
Has Turquoise Moon bought the farms from the immediate landowners?	Nico Lombart	Metago's role within this process is to undertake the environmental assessment process. Landowner negotiations are between Turquoise Moon and the landowners. Metago is not sure of the status of these.
What will happen should the landowners refuse to sell their	Johan Vogel	Noted. This will be addressed during the process.

Issue	Raised by whom	Response provided by AP, unless otherwise stated
properties?		
Will the mine take out insurance that will compensate farmers for any damages?		
How will we be compensated for our loss or inconvenience?	Joan Jackson	
It is unclear what procedures and processes will be conducted at the mine.	Simon van Niekerk	Conceptual information on the proposed project plan and processing options will be included in the scoping report. This information will be refined during the process with the final plan presented in the EIA/EMP report. Corresponding mitigation measures will also be provided.
What raw material will be used within the process?		
How does the mine plan on undertaking the operations?	C.F. Kruger	
The mine should use a separate power network rather than our network.	Louwrens Hanekom	Noted.
What is the iron ore ratio?	M.F. Du Preez	This will be provided in the EIA/EMP report.
As Turquoise Moon will be mining for a variety of minerals, will these minerals all be exported at the same time?		The minerals will be processed together at the plant in order to produce pig iron. The pig iron is the final material that will be transported.
Should mines be nationalised, will the proposed project go ahead as planned?	Johan Vogel	Noted. This will be addressed during the process.
Specialist should not just focus on the immediate project area, but also investigate the effects that the mining activities will have on the environment, that is not within the vicinity of the mine itself.	M.F. Du Preez	
The mine needs to construct a wall 3.5 metres in height that will surround the entire mine perimeter.		
As an alternative a 2 x 3 meter trench can be constructed that will prevent people from crossing over onto our properties.	Johan Vogel	
Will the proposed air strip be available to the public?		
<b>Rehabilitation</b>		
The mine needs to put money into a trust fund specifically for rehabilitation. The farmers need to be compensated for the damages caused by mining activities. The trust fund will ensure that we are not left with any rehabilitation costs.	M.F. Du Preez	Turquoise Moon is responsible for the rehabilitation of the project area. Prior to the commencement of any mining activities, Turquoise Moon will have to provide a certain amount to the Department of Mineral Resources (DMR) that will be utilized for rehabilitation on closure or pre-mature closure of the mine.
Who will be responsible for the rehabilitation?		
We do not trust the DMR. The money should be placed in a trust fund that is separate from any department.		Noted.
<b>Resources</b>		
The proposed project will place pressure on our natural resources.	D.M. Ehlers	This issue will be addressed as part of the environmental assessment process.



<b>Issue</b>	<b>Raised by whom</b>	<b>Response provided by AP, unless otherwise stated</b>
<b>Biodiversity</b>		
The scoping report needs to include a study on the effect that pollution will have on the game and cattle breeding.	Mindred Speolstra	This issue will be addressed as part of the environmental assessment process.
<b>Land use</b>		
Has the mine done studies that focus on the tourism aspect associated with game hunting within the area, taking into consideration that Limpopo is the province that is renowned for its tourism? The project will influence the tourism rate of the area.	Joan Jackson	This issue will be addressed as part of the environmental assessment process.
The proposed mine will destroy an area that contributes to the food supply within South Africa.		
We do not want the mine. It impacts on the agriculture and tourism of the area. We do not want the area to change.	C.F. Kruger	
The quality of our grazing and the condition of our cattle and game will decrease.	Peter James	
<b>Blasting</b>		
How many blasts will be required in order to extract 83 000 tons of pig iron per month?	M.F. Du Preez	These details will be available in the EIA/EMP report.
Blasting activities will impact on the game within the surrounding area. There is a high possibility that the animals will try and escape through the gaming fences when the blasts go off. Turquoise Moon needs to investigate how the mining activities especially blasting will impact on animal behaviour.	Riaan De Beer	This issue will be addressed as part of the environmental assessment process.
<b>Groundwater and surface water</b>		
How many litres of water will the mine require?	Johan Vogel	This issue will be addressed as part of the environmental assessment process.
Is there enough water to support the mine and plant.	C.F. Kruger	
A groundwater study for the area needs to be conducted.		
<b>Noise</b>		
Has the mine investigated the impact that pollution and noise will have on the animals in the area?	Joan Jackson	This issue will be addressed as part of the environmental assessment process.
<b>Traffic</b>		
Where will the ore be transported to and how many haul trucks will be required?	Johan Vogel	The ore will be transported to Richards Bay. Further detail will be provided in the scoping and EIA/EMP reports.
<b>Socio-economic: Value of property and safety</b>		
Our community spends a lot of time and money on keeping this area safe and clean. We are concerned as to what impact the	D.M. Ehlers	This issue will be addressed as part of the environmental assessment process.

Issue	Raised by whom	Response provided by AP, unless otherwise stated
proposed mine will have on our safety as a result of the outside labour force that will be brought into our area.		
The value of our properties will decrease.	Joan Jackson	
The decrease in land value needs to be addressed.	Riaan De Beer	
The type of operations will affect our insurance premiums. A lot of accidents will result from the mining activities.	Joan Jackson	
<b>Socio-economic: Employment/ Benefits</b>		
Where will all the employees be housed?	Abri Le Roux	This issue will be addressed as part of the environmental assessment process.
We are concerned that the employment of people will bring about the possibility of squatters.	Riaan De Beer	
Mine labourers will cut the game fences and walk through our properties. In addition to this the poaching within the area will increase.	M.F. Du Preez	
How will the proposed project impact on our school services? Will we as the community be able to make use of the proposed medical facility?	Lida Hanekom	
Will the mine consider using local services?	M.H. Mmamaleka	
<b>Objections to the project</b>		
We do not want the project to go ahead.	All attendees	Noted.

#### **4. THE WAY FORWARD**

The following way forward was agreed to at the meeting:

- It was agreed that the attendees will form a committee whose purpose is to specifically deal with issues relating to the proposed project and EIA process. This committee will be Metago's contact point for the Moonlight farmers/landowners.
- Full copies of the scoping report will be available for public review in November 2010.
- Full reports will be available in English. Summaries of reports will be available in English, Afrikaans and Sepedi.
- The full scoping report will be made available for public review at the Koedoesrand Farmer's Union, Baltimore Post Office, Ga-Seleka tribal authority, electronically on CD and at the Marnitzkraal Lodge.
- Summaries will be distributed to all IAPs registered on the project database via post or e-mail.
- IAPs will be given 40 days to review environmental reports and to forward any comments to Metago.
- The EIA/EMP report will be made available for public review in March/ April 2011.
- IAPs will be notified of the project's record of decision via newsletter.

#### **5. CLOSE**

AP thanked everyone for attending and closed the meeting.

**APPENDIX 1: ATTENDANCE REGISTER**

Name	Interest	Postal Address	Telephone	Email / Fax
Alex Pheiffer	Metago Environmental Engineers (Pty) Ltd	PO Box 1596 Cramerview 2060	011 467 0945	<a href="mailto:alex@metago.co.za">alex@metago.co.za</a> 011 467 0978
Stella Moeketse			011 467 0945	
Natasha Daly			011 467 0945 083 226 8570	<a href="mailto:natasha.daly@metago.co.za">natasha.daly@metago.co.za</a> 011 467 0978
Fanie Botha	Turquoise Moon Trading 157 (Pty) Ltd			
P Fourie	Landowner – Boekenhoutfontein	PO Box 3688 Modimolle 0510	014 717 5424 082 929 1909	<a href="mailto:pietlin@vodamail.co.za">pietlin@vodamail.co.za</a>
J.A. Mahne Snr	Surrounding landowners	PO Box 31 Baltimore 0619	082 938 6245	
J.A. Mahne Jnr	Surrounding landowners	PO Box 37 Baltimore 0619	082 908 1886	
Elouise Deetlefs	Koedoesrand DLU	PO Box 33 Baltimore 0619	084 814 0030	<a href="mailto:kdlu@mweb.co.za">kdlu@mweb.co.za</a>
Sara Kubu	Sekikwe Business Enterprise	PO Box 237 Rebone 0617	072 377 0915	086 624 8566
S.J. Kubu			082 753 0273	
Kenneth Lamedzi	Lembedzi Service and cleaning	PO Box 419 Rebone 0617	072 5166 632	086 624 8566
M.K. Mbedzi			072 516 6632	
J. Vogel	Farm owner	PO Box 12169 Benoryn 1504	084 505 8641 084 590 5024	<a href="mailto:vogel@absamail.co.za">vogel@absamail.co.za</a>
S. Ehlers	Land owner	PO Box 9 Baltimore 0619	082 495 4548	
M. Lombardt	Land owner	PO Box 61 Tom Burke 0621	082 774 1200	
M.S. Bosman	Land owner	PO Box 61 Tom Burke 0621	076 290 7789	
P.H. Fourie	Boekenhoutfontein	PO Box 935 Modimolle	082 823 8312	<a href="mailto:phfourietr@telkomsa.co.za">phfourietr@telkomsa.co.za</a>
L. Smuts	Lelie Vontijon	Po Box 3174 Rooihuiskraal	082 378 1747	
CC. van Zyl	Land owner	PO box 108 Tom Burke 0621	083 568 1554	<a href="mailto:Vzyl.chris@gmail.com">Vzyl.chris@gmail.com</a>
SH van Niekerk	Farmer	PO Box 1 Tom Burke 0621	082 584 8056	<a href="mailto:simonhvn@mweb.co.za">simonhvn@mweb.co.za</a>
CF Kruger	Land owner	PO Box 97 Tom Burke 0621	082 436 9906	<a href="mailto:maritkruger@vodamail.co.za">maritkruger@vodamail.co.za</a>
A van der Westhuizen	Victoria West	PO Box 20 Tom Burke 0621	082 555 4597	
S. J. Van Wyk	Marnitz kraal	PO Box 1474 Bronkhorstspruit	082 430 3414	
W.J.J Ellis	Farmer	PO Box 258 Ellisras 0555	071 306 3017	
Peter James	Farm owner	PO Box 25732	082 800 4223	<a href="mailto:peterjames@pcigroup.co">peterjames@pcigroup.co</a>

		East Rand 1462		<a href="#">za</a>
M.F. Du Preez	Marnitz		079 879 2943	
P.J. Badenhorst	Farm owner	PO Box 18 Baltimore 0619	082 760 5853	
Danie Meyer	Boekenhoutfontein and alexzanderfontein	PO Box 7 Baltimore 0169	082 494 4370	<a href="mailto:boekfontein@gamil.com">boekfontein@gamil.com</a>
CJJ Meyer			082 780 6768	
Johan Spares	Land owner	PO Box 67 Baltimore 0169	014 767 1918	<a href="mailto:johanspares@gmail.com">johanspares@gmail.com</a>
Henk Malan	Kildare	PO Box 88 Baltimore 0169	082 851 2151	<a href="mailto:Anel.malan@worldonline.co.za">Anel.malan@worldonline.co.za</a>
Riana Spoelstra	Tabana	Postnet Suite 54 Private Bag X1007 Lytelton 0140	072 200 9761	<a href="mailto:rs@tabana.co.za">rs@tabana.co.za</a>
Minderd Speolstra			083 445 0757	<a href="mailto:ms@tabana.co.za">ms@tabana.co.za</a>
Guido Deacon	Moonlight	PO Box 75 Swartwater 0622	083 298 7334	<a href="mailto:guidoensusan@yahoo.com">guidoensusan@yahoo.com</a>
Josef Espag	Land owner	PO Box 84 Baltimore 0619	082 810 8254	<a href="mailto:josefespag@live.co.za">josefespag@live.co.za</a>
A. Bornnian	Neighbouring	PO Box 66	084 515 7742	<a href="mailto:ariebornnian@yahoo.com">ariebornnian@yahoo.com</a>
A Bornnian	landowner	Baltimore 0619	082 870 4556	
M.H. Mmamaleka	Security services	PO Box 4990 Semorishi 0836	082 727 9745	
Louwrens Hanekom	Kamoti	PO Box 17 Baltimore 0619	083 362 8990 014 767 1147	<a href="mailto:lida@telkomsa.net">lida@telkomsa.net</a>
Lida Hanekom				
Maripa E.A	Baltimore leader	C. PO Box 58 Baltimore 0619	076 557 9054	
Abri Le Roux	Marnitzkraal	PO Box 1028	082 498 2987	<a href="mailto:account@marnitzkraal.co.za">account@marnitzkraal.co.za</a>
Joan Jackson	Lodge	Heidelberg 1438		
Corneels Coetzee	Moonlight		076 310 1933	
J.J. Brand	Ventersdraai Kwaggadraai	PO Box 80 Baltimore 0619	082 968 1998	
Christine Badenhorst	Praire	PO Box 18 Baltimore	072 290 7910	
Riaan De Beer	Marnitzkraal portion 7	PO Box 3553 Pietersburg 0700	015 298 8069 083 628 1951	<a href="mailto:debeer@telkomsa.net">debeer@telkomsa.net</a>
A.P. Gerber	Bleomendal	PO Box 38	072 914 9185	
R. Jonker	Bloemendal	Baltimore	082 759 8582	
M. Deeks		PO Box 98502 Sloane Pauh	083 628 5482	<a href="mailto:Michael.deeks@gmail.com">Michael.deeks@gmail.com</a>
M Masoga		Galal/A1 Secloop	078 789 0110	

APPENDIX 2: PRESENTATION

**TURQUOISE MOON TRADING 157  
(PTY) LTD**

**ENVIRONMENTAL ASSESSMENT FOR THE  
PROPOSED MOONLIGHT AND DE LOSKOP  
IRON ORE MINE**



**PUBLIC SCOPING MEETING**

**Metago**  
Environmental Engineers (Pty) Ltd

**02 OCTOBER 2010**

**AGENDA**

- \* Registration
- \* Welcome and opening
- \* Environmental process overview
- \* Project overview
- \* General discussion
- \* Close

**ENVIRONMENTAL PROCESS**

**What?**

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

**ENVIRONMENTAL PROCESS**

**Why?**

- \* Legal requirement
- \* It is the right thing to do

**ENVIRONMENTAL PROCESS**

**How?**

- \* Participation of interested and affected parties
- \* Specialist investigations
- \* Reporting
- \* Decision making

**ENVIRONMENTAL PROCESS**

**Who makes the decisions:**

- \* Department of Mineral Resources (DMR)
- \* National Department of Environmental Affairs
- \* Department of Economic Development, Environment and Tourism (DEDET)

## ENVIRONMENTAL PROCESS

### Authority involvement:

- Department of Water and Environmental Affairs (DWEA)
- National Department of Agriculture
- Limpopo Department of Parks and Tourism
- Department of Land Affairs
- South African Heritage Resource Agency (SAHRA)
- Limpopo Heritage Resource Agency (LIHRA)
- Limpopo Department of Roads and Transport
- Lephalale Local Municipality
- Waterberg District Municipality

## ENVIRONMENTAL PROCESS

### Different stages?

- \* Scoping phase
- \* Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) phase

## ENVIRONMENTAL PROCESS

### The purpose of today's meeting

- \* Understand the process
- \* Raise and record environmental issues
- \* Identify possible specialist investigations

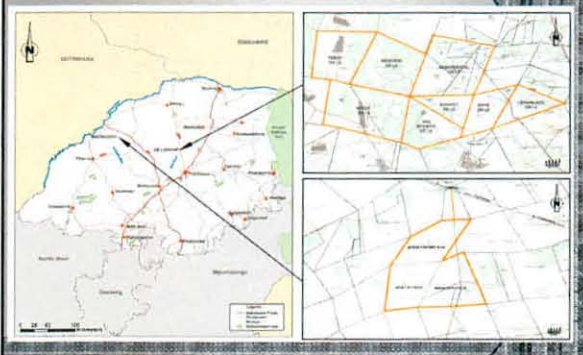
## ENVIRONMENTAL PROCESS

### How does this help you?

#### Scoping report

- \* Sets out all issues that have to be investigated further
- \* Sets out how these investigations will be performed
- \* "Agreed approach" between the public authorities and the project team

## LOCAL SETTING OF THE PROJECT AREA



## DESCRIPTION OF MOONLIGHT PROJECT MINING & PROCESSING

**Farms** – Gouda Fontein, Moonlight, Julietta

**Resource** – iron ore, manganese ore, nickel, limestone, marble

**Mining method** – opencast

**Production rate** – ±83 000 tonnes pig iron product per month

**Life of mine** – life of 30 years (starting 2012 with construction, 2016 full production)

**Workforce** – ±100 temporary, ±720 operational





- ### SUPPORT FACILITIES/SERVICES
- Construction borrow pit(s)
  - Temporary construction yard and offices
  - Mining contractor area to support mining fleet
  - Material/waste storage and handling area(s)
  - Water management facilities
  - Water and power supply facilities
  - Communication and lighting facilities
  - Helipad and airstrip
  - Sewage treatment facilities
  - Administration, security, access control
  - Laboratory, staff medical station
  - Housing facilities?

- ### POTENTIAL ENVIRONMENTAL IMPACTS
- Change in topography
  - Impact on soil, land capabilities and land uses
  - Impact of blasting activities
  - Impact on the biodiversity of plants and animals
  - Hydrology (alteration of drainage patterns)
  - Groundwater contamination and depletion
  - Air pollution (Increase in dust levels)
  - Increase in noise levels
  - Impact on heritage resources
  - Visual impact
  - Traffic
  - Socio-economic impacts

### QUESTIONS

- ### WAY FORWARD
- Distribute scoping report (November 2010)
  - Regulatory authority and public review (40 days from distribution)
  - Specialist EIA investigations (next 3 to 6 months)
  - Distribute EIA/EMP report (March/ April 2011)
  - Distribute record of decisions (2<sup>nd</sup> half 2011)

- ### LOGISTICS
- Environmental reports:
- Full reports – English
  - Summaries – English / Afrikaans / Sepedi
- Summaries & newsletters:
- via post or e-mail
- Full reports:
- Farmer's Union
  - Ga-Seleka Tribal Office
  - Baltimore Post Office
  - Electronic on CD
  - Where else?

CLOSE

TURQUOISE MOON TRADING 157 (PTY) LTD  
 MOONLIGHT AND DE LOSKOP IRON ORE PROJECT, LIMPOPO PROVINCE  
 REGISTRATION AND RESPONSE FORM FOR INTERESTED AND AFFECTED PARTIES

DATE	30/8/2010	TIME	16:00
PARTICULARS OF THE INTERESTED AND AFFECTED PARTY			
NAME	Minderd Spoelstra for Tabana Investments		
POSTAL ADDRESS	PO Box # 54		
	P/Box X1007		
	LYTTELTON		
		POSTAL CODE	0140
STREET ADDRESS			
		POSTAL CODE	
WORK/DAY TELEPHONE NUMBER	012-6615875	WORK/DAY FAX NUMBER	012-6615639
CELL PHONE NUMBER	0834450757	E-MAIL ADDRESS	ms@tabana.co.za

PROJECT AREA (please tick appropriate box):

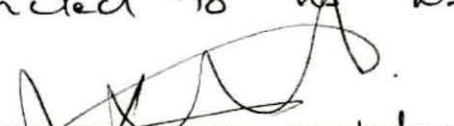
Moonlight area	<input checked="" type="checkbox"/>	De Loskop area	<input type="checkbox"/>
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PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT

Farm: Tabana LR133, Border to Farm Moonlight.  
 AS AFFECTED Party, directly by the project.

PLEASE WRITE YOUR COMMENTS AND QUESTIONS HERE

Tabana Investments, owner of Tabana LR133, though M. Spoelstra are very concerned about the effect the proposed project will have on both the game breeding and hunting / tourism business conducted on the Farm. In this light we request that all available information and options be communicated to us as a matter of urgency.

  
M. Spoelstra

Please return completed forms to:

**Metago Environmental Engineers**  
 Alex Pheiffer or Natasha Daly or Stella Moeketse  
 Fax: (011) 467-0978  
 Email: turquoisemoon@metago.co.za

TURQUOISE MOON TRADING 157 (PTY) LTD  
 MOONLIGHT AND DE LOSKOP IRON ORE PROJECT, LIMPOPO PROVINCE  
 REGISTRATION AND RESPONSE FORM FOR INTERESTED AND AFFECTED PARTIES

DATE	30/8/2010	TIME	16:00
PARTICULARS OF THE INTERESTED AND AFFECTED PARTY			
NAME	Minderd Spoelstra for Tabana Investments		
POSTAL ADDRESS	PO Box # 54		
	P/Box X1007		
	LYTTELTON		
		POSTAL CODE	0140
STREET ADDRESS			
		POSTAL CODE	
WORK/DAY TELEPHONE NUMBER	012-6615875	WORK/DAY FAX NUMBER	012-6615639
CELL PHONE NUMBER	0834450757	E-MAIL ADDRESS	ms@tabana.co.za

PROJECT AREA (please tick appropriate box):


Moonlight area	<input checked="" type="checkbox"/>	De Loskop area	<input type="checkbox"/>
----------------	-------------------------------------	----------------	--------------------------

PLEASE IDENTIFY YOUR INTEREST IN THE PROPOSED PROJECT

Farm: Tabana LR133, Border to Farm Moonlight.  
 AS AFFECTED Party, directly by the project.

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M. Spoelstra

Please return completed forms to:

**Metago Environmental Engineers**  
 Alex Pheiffer or Natasha Daly or Stella Moeketse  
 Fax: (011) 467-0978  
 Email: turquoisemoon@metago.co.za

**TURQUOISE MOON TRADING 157 (EDMS) BPK**  
**MOONLIGHT EN DE LOSKOP YSTERERTSPROJEK, LIMPOPO-PROVINSIE**  
**REGISTRASIE-EN-REAKSIEVORM VIR BELANGHEBBENDE EN GEAFFEKTEERDE PARTYE**

DATUM	2-10-2010	TYD	
<b>BESONDERHEDE VAN DIE BELANGHEBBENDE EN GEAFFEKTEERDE PARTY</b>			
NAAM	P.L. Prinsloo		
POSADRES	POSBUS 11		
	Swartwater		
		POSKODE	0622
STRAATADRES	Plaas Baximone LK 22		
		POSKODE	
WERK / BEDAGSE TELEFOONNOMMER	0832277234	WERK / BEDAGSE FAKSNOMMER	
SELFOONNOMMER		E-POS-ADRES	preterpl@vodanet.co.za

**PROJEGEBIEDE (merk asseblief toepaslike blokkie):**

Moonlight-area	<input checked="" type="checkbox"/>	De Loskop-area	<input type="checkbox"/>
----------------	-------------------------------------	----------------	--------------------------

**IDENTIFISEER ASSEBLIEF U BELANG IN DIE VOORGESTELDE PROJEG**

Boek in die gebied. Ek is reeds die 3<sup>e</sup> geslag en my seun die 4<sup>e</sup> geslag wat hulle boer.

**SKRYF ASSEBLIEF U KOMMENTAAR EN VRAE HIER NEER**

Besware die volgende. 1. Water wat u gaan gebruik het reeds onder druk is. Indien u die water uit die Melinda verskewing gaan pomp, gaan dit die hele gebied affekteer. Indien u die polder meer gaan gebruik, gaan u verdere druk op die Limpopo-besere uitsoeg want Eskom wat vir u gaan terug voorsien gaan reeds water uit die ho-krachtmeter en Magora-omvrou wat die Limpopo-river en die beere en die omgewing onder groot druk gaan sit. Die riviere en die Melinda verskewing voel die gebied se ondergronde water. Met Eskom wat water gaan gebruik te same met julle en daar is ook reeds in ander wye wat projekterings gety het Noordwaarts vanaf Melinda Noordwaarts na Swartwater. 2) Besoedeling, maseid ens is aantekbaar maar in kort gestel. (Die gebied het nie water vir die tipe rype nie. Vervoerprobleme. Die polder kan dit nie hanteer nie.

Besorg asseblief voltooide vorms terug aan:

U moet dit ASB stuur. Dit gaan die gebied. Die boere die natuur vermetig met onbeheerbare besoedeling.  
**Metago Environmental Engineers**  
 Alex Pheiffer of Natasha Daly of Stella Moeketse  
 Faks: (011) 467-0978  
 E-pos: [turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)

Dankie  
 Pieter Prinsloo

U kan my kontak om vir ander te verduidelik.  
 Kan ongeveer in die vergadering bywoon nie.

**TURQUOISE MOON TRADING 157 (EDMS) BPK**  
**MOONLIGHT EN DE LOSKOP YSTERERTSPROJEK, LIMPOPO-PROVINSIE**  
**REGISTRASIE-EN-REAKSIEVORM VIR BELANGHEBBENDE EN GEAFFEKTEERDE PARTYE**

DATUM	02-10-2010	TYD	10:00
<b>BESONDERHEDE VAN DIE BELANGHEBBENDE EN GEAFFEKTEERDE PARTY</b>			
NAAM	MARNITZ KRAAL LODGE		
POSADRES	PO Box 1028		
	HEIDELBERG		
	POSKODE	1438	
STRAATADRES	MARNITZ KRAAL FARM PORTION 517		
	SITUATED ON N11 ROUTE MARNITZ		
	POSKODE		
WERK/BEDAGSE TELEFOONNOMMER	082 498 2987	WERK/BEDAGSE FAKSNOMMER	086 676 6849
SELFOONNOMMER	082 891 4701	E-POS-ADRES	ACCOUNTS@MARNITZKRAAL.CO.ZA

**PROJEKGBIEDE (merk asseblief toepaslike blokkie):**

Moonlight-area	<input checked="" type="checkbox"/>	De Loskop-area	<input type="checkbox"/>
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**IDENTIFISEER ASSEBLIEF U BELANG IN DIE VOORGESTELDE PROJEK**

ONS HET 'N BESIGHEID IN DIE AREA (LODGE)

**SKRYF ASSEBLIEF U KOMMENTAAR EN VRAE HIER NEER**

1. WATER IN DIE AREA.
2. SECURITY IN DIE AREA
3. BESKEDENING IN DIE AREA
4. IMPAK OP DIE AREA (GERAAS, POPULASIE, BEHULSING)

**Besorg asseblief voltooide vorms terug aan:**

**Metago Environmental Engineers**  
**Alex Pheiffer of Natasha Daly of Stella Moeketse**  
**Faks: (011) 467-0978**  
**E-pos: [turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)**

**Natasha Daly**

---

**From:** Ken du Plessis [ken@lantic.net]  
**Sent:** 14 September 2010 08:44 PM  
**To:** Turquoise Moon  
**Subject:** Registration as interested Party

As a property owner in the Ellisras District we need to be registered as an interested party please.

Ken du Plessis

-----  
Fauna Afrika

Fax: + 27 86 559 2330

Tel: + 27 14 766 0111

Website: [www.faunafrika.com](http://www.faunafrika.com)

**Natasha Daly**

---

**From:** Johan Vogel [jakkals@absamail.co.za]  
**Sent:** 30 August 2010 12:23 PM  
**To:** Natasha Daly  
**Subject:** Moonlight

Ek wil graag weet hoeveel liter water word per dag benodig deur die beogde  
myn en waar gaan die water vandaan kom ?  
Johan Vogel



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[Click Here!](#)



## Carol Kenyon

---

**From:** Alex Pheiffer  
**Sent:** 27 September 2010 12:53 PM  
**To:** Natasha Daly  
**Subject:** FW: FW: URGENT Enquiry

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

From: Fanie Botha [mailto:Fanie.Botha@ferrumcrescent.com]  
Sent: 21 September 2010 08:29 AM  
To: 'Sandy Hill'; ttprojects@mweb.co.za  
Cc: scott.huntly@ferrumcrescent.com; Alex Pheiffer  
Subject: RE: FW: URGENT Enquiry

Mr Ras, again thank you for your response. We are busy with the EIA and I did forward your details to Mr Alex Pheiffer who is doing the study as an independent consultant. She will ensure that all your concerns are captured as part of the EIA process.

Kind regards,

Dr. Fanie Botha | Project Manager | Ferrum Crescent Limited |  
Tel: +27 11 510 0159 | Fax: +27 11 86 219 5701 | Mobile: +27 82 9034214 | Palazzo  
Towers West, Montecasino Blvd, Fourways, 2055 | fanie.botha@ferrumcrescent.com|  
www.ferrumcrescent.com |

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

From: Sandy Hill [mailto:sandy.hill@ferrumcrescent.com]  
Sent: 20 September 2010 02:25 PM  
To: ttprojects@mweb.co.za  
Cc: 'Fanie Botha'; scott.huntly@ferrumcrescent.com  
Subject: RE: FW: URGENT Enquiry

Thanks so much for getting back to me Mr Rass.

I see Dr Botha has been in contact with you, but please do not hesitate to contact me with any further queries that you may have.

Best regards

Sandy Hill | BSc (Hons|PA to Scott Huntly | Ferrum Crescent Limited|  
Tel: +27 11 510 0159 |Fax: +27 11 86 219 5701 |Mobile: +27 82 651 9966|  
Palazzo Towers West, Montecasino Blvd, Fourways, 2055 |  
Sandy.Hill@ferrumcrescent.com | www.ferrumcrescent.com |

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

From: ttprojects@mweb.co.za [mailto:ttprojects@mweb.co.za]  
Sent: 20 September 2010 11:59 AM  
To: Sandy Hill  
Subject: re: FW: URGENT Enquiry

Dear Sandy

I do not represent any company. I am the rightful owner of one of the farms which probably will be affected with this project as discussed. If not my farm - then the surrounding farms and I will still be affected by many things - such as

Crime  
Polluted water  
Mine dust causing medical problems  
Traffic - mine associated vehicles / employed workers  
Accomodation for above .  
etc, etc

I know that your company has done all relevant studies regarding this project. But I need to know where I stand and what procedure to follow if I object.

Regards

PG Ras

>

Dear Mr Ras

Thank you for your email requesting information regarding the Turquoise Moonlight Iron Projects in Limpopo in South Africa.

Please would you kindly advise which company you represent and where you are from.

Thanks so much.

Best regards

Sandy Hill | BSc (Hons|PA to Scott Huntly | Ferrum Crescent Limited|  
Tel: +27 11 510 0159 |Fax: +27 11 86 219 5701 |Mobile: +27 82 651 9966| <

**TURQUOISE MOON TRADING 157 (EDMS) BPK**  
**MOONLIGHT EN DE LOSKOP YSTERERTSPROJEK, LIMPOPO-PROVINSIE**  
**REGISTRASIE-EN-REAKSIEVORM VIR BELANGHEBBENDE EN GEAFFEKTEERDE PARTYE**

DATUM	02-10-2010	TYD	10:00
<b>BESONDERHEDE VAN DIE BELANGHEBBENDE EN GEAFFEKTEERDE PARTY</b>			
NAAM	MARNITZ KRAAL LODGE		
POSADRES	PO Box 1028		
	HEIDELBERG		
	POSKODE	1438	
STRAATADRES	MARNITZ KRAAL FARM PORTION 54		
	SITUATED ON N11 ROUTE MARNITZ		
	POSKODE		
WERK/BEDAGSE TELEFOONNOMMER	082 498 2987	WERK/BEDAGSE FAKSNOMMER	086 676 6849
SELFOONNOMMER	082 891 4701	E-POS-ADRES	ACCOUNTS@MARNITZKRAAL.CO.ZA

**PROJEKGBIEDE (merk asseblief toepaslike blokkie):**

Moonlight-area	<b>X</b>	De Loskop-area
----------------	----------	----------------

**IDENTIFISEER ASSEBLIEF U BELANG IN DIE VOORGESTELDE PROJEK**

**ONS HET N BESIGHEID IN DIE AREA (LODGE)**

**SKRYF ASSEBLIEF U KOMMENTAAR EN VRAE HIER NEER**

1. WATER IN DIE AREA.
2. SECURITY IN DIE AREA
3. BESIGHEID IN DIE AREA
- IMPAK OP DIE AREA (GERAAS, POPULASIE, BEHULSING)

**Besorg asseblief voltooide vorms terug aan:**

**Metago Environmental Engineers**  
**Alex Pheiffer of Natasha Daly of Stella Moeketse**  
**Faks: (011) 467-0978**  
**E-pos: [turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)**



**Johannesburg office:** PO Box 1596, Cramerview, 2060  
Fourways Manor Office Park, Cnr Roos and Macbeth Str, Fourways  
Tel: +27 (11) 467-0945, Fax: +27 (11) 467-0978

**Pretoria Office:** PO Box 40161, Faerie Glen, 0043  
Pentagon House, 669 Plettenburg Rd, Faerie Glen  
Tel: +27 (12) 991-8881, Fax: +27 (12) 991-1907

#### RECORD OF TELEPHONE CONVERSATION

<b>To:</b>	Riaan De Beer
<b>Tel No.:</b>	083 628 1951
<b>From:</b>	Alex Pheiffer
<b>Date:</b>	27 October 2010
<b>Subject:</b>	Turquoise Moon – Feedback scoping meeting

- Alex Pheiffer from Metago confirmed with Riaan De Beer that he was the representative for the farmers committee in Moonlight.
- It was further added that Metago would aim to make the report available for public review around the 09 November 2010. IAPs would be given till early January to comment on the report. The closing date for comments is still to be determined.
- It was agreed that the scoping review meeting would be held on Saturday 13 November 2010 at the Koedoesrand farmers hall. Invitations to the meetings would be sent out by the end of the week.

**RECORD OF TELEPHONE CONVERSATION**

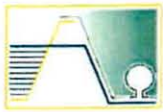
<b>To:</b>	Casper Vorster
<b>Tel No.:</b>	015 291 9700
<b>From:</b>	Alex Pheiffer
<b>Date:</b>	10 December 2010
<b>Subject:</b>	Turquoise Moon – Response to letter received on 08 December 2010.

- Mr Vorster confirmed that he is the new landowner of portion 0 of the farm Bordeaux 55 and is currently registered under Bordeaux Game Ranch.
- Mr Vorster confirmed that he was notified of the proposed project from Riaan De Beer from the Koedoesrand Farmers Union Forum.
- Mr Voster was notified that the Turquoise Moon database would be updated to include his landowner details
- Alex Pheiffer introduced Metago as the environmental consulting company that will be conducting the environmental work associated with the proposed iron ore project.
- Alex Pheiffer gave a brief overview of the public involvement process to date as well as a brief description of the project. Alex Pheiffer explained that we are at the start of the public involvement process and that the closing date for comments is the 24 January 2011 and that Mr Vorster would still be able to provide comments on the proposed project. It was further added that should Mr Vorster wish to have more time to review the scoping report, the closing date could be extended.
- It was agreed that a copy of the scoping summary would be e-mailed to Mr Vorster that day and that a electronic copy of the CD would be also be couriered to him.
- Concerns that were raised by Mr Vorster during the telephonic discussion are outlined below:
  - Concerned about the availability of water;
  - Concerned about the employment of 200 people as their farm workers will leave the farms to rather work at the mine; and
  - The environment would be destroyed;
  - Concerned about the impact that the project will have on his business relating to game hunting.
- Alex Pheiffer indicated that the above mentioned issues had previously been raised during the stakeholder engagement meetings and that a socio-economic specialist (Mr Muller) had been appointed to address these issues. It was further added that Mr Muller would be in contact with Mr Vorster to discuss socio-economic related issues.

### RECORD OF TELEPHONE CONVERSATION

<b>To:</b>	Chris Lourens
<b>Tel No.:</b>	083 379 4805
<b>From:</b>	Alex Pheiffer
<b>Date:</b>	10 December 2010
<b>Subject:</b>	Turquoise Moon – Response to letter received on 09 December 2010.

- Mr Lourens confirmed that he is the new landowner of portion 1 of the farm Marnitzkraal 54 and is currently registered under Aristida Trust. The property was purchased from Mr Erwin Kruger during November/December 2010.
- Mr Vorster confirmed that he was notified of the proposed project from Riaan De Beer from the Koedoesrand Farmers Union Forum.
- Alex Pheiffer introduced Metago as the environmental consulting company that will be conducting the environmental work associated with the proposed iron ore project.
- Mr Lourens was notified that the Turquoise Moon database would be updated to reflect the correct landowner details.
- Alex Pheiffer gave a brief overview of the public involvement process to date as well as a brief description of the project. Alex Pheiffer explained that we are at the start of the public involvement process and that the closing date for comments is the 24 January 2011 and that Mr Lourens would still be able to provide comments on the proposed project. It was further added that should Mr Lourens wish to have more time to review the scoping report, the closing date could be extended.
- It was agreed that a copy of the scoping summary would be e-mailed to Mr Lourens that day and that a electronic copy of the CD would be also be couriered to him.



Metago House  
Fourways Manor Office Park  
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Project Reference: T020-02

10 November 2010

**TURQUOISE MOON TRADING 157 (PTY) LTD**  
**ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED MOONLIGHT AND DE LOSKOP**  
**IRON ORE PROJECT**  
**SCOPING REPORT AND SUMMARY FOR REVIEW**

Dear Sir/Madam

**1. INTRODUCTION**

As you are aware, Turquoise Moon Trading 157 (Pty) Ltd (Turquoise Moon) has mining and exploration-related interests in the Limpopo Province. The iron ore prospects cover two areas, referred to as the Moonlight and De Loskop areas, respectively. Turquoise Moon intends to develop an iron ore mine at the Moonlight area and conduct mining exploration activities at the De Loskop area. The overall project is known as the Moonlight and De Loskop Iron Ore project. This summary focuses on the **Moonlight** project area. Should you wish to receive information on the De Loskop project area, please request the information from Metago (contact details below).

**2. PROJECT OVERVIEW**

The Moonlight area is located along the N11 between Mokopane (Potgietersrus) and the Botswana border, near to the town of Marnitz, and approximately 60 km north and 145 km north-west of Lephalale (Ellisras) and Polokwane, respectively (Appendix 1). In broad terms, the proposed Moonlight mining operation will comprise an open pit mine, mineral processing facilities, mine residue disposal facilities and various support infrastructure and services. Initially the project scope as presented in the background information document (BID) and scoping meetings, included an iron-making plant at the Moonlight site. Due to various environmental and technical considerations, this iron-making plant (and associated facilities) has subsequently been excluded from the project scope.

**3. PROCESS OVERVIEW**

The environmental assessment process comprises three phases: an application phase, scoping phase and environmental impact assessment (EIA)/environmental management programme (EMP) phase. The process is currently in the scoping phase. The main purpose of the scoping phase is to set out all project-related environmental issues; to identify and outline what investigations need to be conducted; and to detail how



Directors:  
P de Kock PrSciNat  
S Dorman PrEng  
A James PrEng  
B Stobart EAPSA  
S van Niekerk PrEng

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Perth, Australia  
Accra, Ghana

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these investigations will be performed. The terms of reference for these investigations will enable the meaningful assessment of all relevant environmental and social issues.

#### 4. DOCUMENTS FOR REVIEW

The scoping report for the proposed project is available for public review. The following documents relevant to the **Moonlight** project area have been extracted from the scoping report and attached to this letter for your perusal:

- Issues table incorporating issues raised to date by interested and affected parties (IAPs) and responses from the project team (attached as Appendix 2)
- Plan of study for the next phase including terms of reference for additional work and/or specialist studies (attached as Appendix 3).

#### 5. REVIEW OF SCOPING REPORT

In addition to the scoping summaries that have been distributed (to all IAPs that are registered on the project's public involvement database), full copies of the scoping report have been made available for public review at the following places:

<u>Moonlight project area</u>	<u>De Loskop project area</u>
<ul style="list-style-type: none"> <li>• Koedoesrand Farmer's Union (C/o Eloise Deetlefs)</li> <li>• Baltimore Post Office (Anya Hawenga, Mondays and Thursdays)</li> <li>• Ga-Seleka tribal authority (C/o Kgosi Seleka)</li> <li>• Marnitzkraal Lodge (C/o Joan Jackson)</li> <li>• Koedoesrand Grondeienaars Forum (C/o Riaan de Beer)</li> <li>• Lephalale Public Library (C/o Hazel Mashaba)</li> <li>• Lephalale Local Municipal Offices (C/o Mr Eben Badenhorst)</li> </ul>	<ul style="list-style-type: none"> <li>• Dendron public library (C/o Daphney Mabala)</li> <li>• LEDET's office in Dendron (C/o Moses Phweha)</li> <li>• Molemole Local Municipal Offices (C/o Tebogo Seabi)</li> <li>• Aganang Local Municipal Offices (C/o William Mathekgane)</li> <li>• Moletsi Tribal Office (C/o Kgosi Seleka)</li> <li>• Transvaal Agricultural Union (C/o Marie Helm)</li> <li>• A copy for each of the following villages: Ga-Sako and Legotlhong villages on the farm Triest 192LS, Ga-Kolopo and Sekuruwe villages on the farm Persie 200LS, Sekuruwe and Ga-Morora villages on the farm Westheim 191LS and Makgalong village on the farm Van Wyksput 201LS.</li> </ul>

A full copy of the report is also available at Metago's offices in Fourways, Johannesburg (Monday to Friday, 08h00 to 17h00). Electronic copies of the full scoping report will be made available to IAPs on request (on a CD).

IAPs have until **24 January 2011** (this excludes the Christmas holiday period) to review the scoping report. Comments should be submitted in writing to Metago via fax (011-467-0978) and/or e-mail ([turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)) and/or completed comments sheets can be dropped off with the representatives listed above and Metago will arrange to collect these.

All received comments will be included in the final scoping report that will be forwarded to the relevant authorities as part of the environmental assessment process.



If you have any questions about the proposed project or the EIA process, please contact the undersigned.

Regards



Alex Pheiffer (PrSciNat)

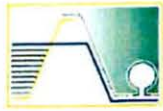


Stella Moeketse

For Metago Environmental Engineers (Pty) Ltd



Natasha Daly



Metago House  
Fourways Manor Office Park  
Corner Roos and Macbeth Streets  
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Fax: +27 (11) 467-0978  
Website: www.metago.co.za

Project Reference: T020-02

10 Ngwanaitsele 2010

**TURQUOISE MOON TRADING 157 (PTY) LTD**  
**TSHEKATSHEKO YA GO AMEGA GA TIKOLOGO YA POROJEKE EE TSHITSINGWANG YA MANYA A**  
**TSHIPI YA MOONLIGHT LE DE LOSKOP**  
**PEGEO YA PATLISISO LE TSHOBOLOKO EE LEBESISIWANG**

Rre/Mme yo a rategang

**1. TLHAGISO**

Jaaka o lemogile Turquoise Moon Trading 157 (Pty) Ltd (Turquoise Moon) e na le kgalihagelo ya moepo le e e amanang le patlisiso kwa Porofenseng ya Limpopo. Dipatlisiso tsa tshipi di akaretsa dikgaolo di le pedi tse di bidiwang ka go farologana dikgaolo tsa Moonlight le De Loskop. Turquoise Moon e ikemiseditse go tlhabolola moepo wa manya a tshipi mo kgaolong ya Moonlight le go dira dipatlisiso tsa moepo mo kgaolong ya De Loskop. Porojeke ka kakaretso e itsege ka porojeke ya Many a tshipi ya Moonlight le De Loskop. Tshoboloko e, e lebile porojeke ya kgaolo ya **Moonlight**. Fa e le go re o eletsa go amogela tshedimosetso ka kgaolo ya porojeke ya De Loskop o kopiwa go kopa tshedimosetso kwa go Metago (dintlha tsa kgalagano di fa tlase).

**2. TSHOBOLOKO YA POROJEKE**

Kgaolo ya Moonlight e bapile le N11 magareng ga Mokopane (Potgietersrus) le molelwane wa Botswana gaufi le toropo ya Marnitz, le dikilomitara tse di ka nnang 60 kwa bokone ba Lephalale (Ellisras) le di le 145 kwa bokone bophirima ba Polokwane (Setshwantsho sa 1). Ka kakaretso moepo o o tshitsingwang wa Moonlight o tla nna le moepo wa mosima o o bulegileng, tshiamelo ya go rulaganya minerala, ditshiamelo tsa go latihela masalela a moepo mmogo le dipopegotheo tse di farologaneng tsa tshegetso le ditirelo. Mo tshimologong kgonagalo ya porojeke jaaka e tlhagisitswe mo lekwalong la lemorago la tshedimosetso (BID) le dikopano tsa patlisiso, e ne e e akaretsa polante ya go dira tshipi mo saeteng ya Moonlight. Ka ntlha ya mabaka a a farologaneng a tikologo le setegeniki, polante eno ya go dira tshipi (le ditshiamelo tse di tsamaisanang) ga ya akaretswa mo kgonagalo ya porojeke.

**3. TSHOBOLOKO YA TIRO**

Tiro ya go sekaseka tikologo e diriwa ke dikgato di le tharo, kgato ya kopo, kgato ya patlisiso le kgato ya tshekatsheko ya kamego ya tikologo le Lenaneo la botsamaisi ba tikologo. Tiro mo sebakeng seno e mo kगतong ya patlisiso. Maikaelelo magolo a patlisiso ke go tlhagisa dintlha tsotlhe tse di amanang le tikologo;



Directors:  
P de Kock PrSciNat  
S Dorman PrEng  
A James PrEng  
B Stobart EAPSA  
S van Nlekerk PrEng

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Perth, Australia  
Accra, Ghana

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go supa le go tthagisa dipatlisiso tse di tlhokang go diriwa; le go tthalosa go re dipatlisiso tse di tla diriwa jang. Maikemisetso le sebopego sa dipatlisiso tse a tla kgonagatsa tshakatsheko e e nang le bokao ya dintlha tsotlhe tse di maleba tsa tikologo le leago.

#### 4. DIKWALO TSE DI BUISIWANG

Pegelo ya patlisiso ya porojeke e e tshikinnwang e teng go buisiwa ke setshaba. Dikwalo tse di latelang tse di amanang le kgaolo ya porojeke ya **Moonlight** di nopotswe mo pegelong ya patlisiso le go gokelelwa mo pegelong eno ya patlisiso go re o di buise:

- Lenaneo la dintlha le le akaretsang dintlha tse di tthagisitsweng go fitlha fa ke bakgatlhegi le baamegi le ditsibogo go tswa mo setlhopheng sa porojeke (di gokeletswe jaaka Mametlelelo ya 1)
- Leano la ithuto la kgato e e latelang le le akaretsang maikemisetso le popego ya tiro ya tlaletso le/ kgotsa diithuto tse di kgethegileng (di gokeletswe jaaka Mametlelelo ya bo 2).

#### 5. GO BUISIWA GA PEGELO YA PATLISISO

Mo godimo ga tshoboloko ya pegelo e e abetsweng (Bakgatlhegi le baamegi botlhe ba ba kwadisitsweng mo lefelong la dintlha la kamego ya setshaba mo porojekeng), dikhopi tse di tletseng tsa pegelo ya patlisiso di teng go buisiwa ke setshaba mo mafelong a a latelang:

<u>Kgaolo ya porojeke ya Moonlight</u>	<u>Kgaolo ya porojeke ya De Loskop</u>
<ul style="list-style-type: none"> <li>• Mokgatlho wa balemirui wa Koedoesrand ( Mo tlhokomelong ya Eloise)</li> <li>• Kantoro ya poso ya Baltimore (Malatsi aa buletsweng le dinako)</li> <li>• Kgotla ya morafe wa Ga-Seleka (Mo tlhokomelong ya Kgosi Seleka)</li> <li>• Marnitzkraal Lodge (Mo tlhokomelong ya Joan Jackson )</li> <li>• Foramo ya Koedoesrand Grondeienaars (Mo tlhokomelong ya Riaan de Beer)</li> <li>• Laeborari ya setshaba ya Lephallale</li> <li>• Dikantoro tsa masepala wa Lephallale (Mo tlhokomelong ya Eben Badenhorst)</li> </ul>	<ul style="list-style-type: none"> <li>• Laeborari ya setshaba ya Dendron (Mo tlhokomelong ya Daphney Mabala)</li> <li>• Ofisi ya LEDET kwa Dendron (Mo tlhokomelong ya Moses Phweha)</li> <li>• Dikantoro tsa masepala wa selagae wa Molemole (Mo tlhokomelong ya Tebogo Seabi)</li> <li>• Dikantoro tsa masepala wa selegae wa Aganang (Mo tlhokomelong ya William Mathakgane)</li> <li>• Kantoro ya morafe wa Moletsi (Mo tlhokomelong ya Kgoshi Moloto)</li> <li>• Mokgatlho wa temothuo wa Transvaal (Mo tlhokomelong ya Marie Helm)</li> <li>• Motse wa e Ga-Sako, Motse wa Legotlhong mo polaseng ya Triest 192LS, Motse wa e Ga-Kolopo, Motse wa Sekuruwe mo polaseng ya ya Persie 200LS; Motse wa Sekuruwe e Ga-Morora mo polaseng ya Persie 200LS e Motse wa Makgalong</li> </ul>

Khopi e e tletseng ya pegelo le yona e teng mo diofising tsa Metago kwa Fourways, Johannesburg (Mantaga go fitlha Labotlhano, go tloga ka 08h00 go fitlha ka 17:00). Dikhopi tsa ileketeroniki tsa pegelo e e tletseng ya patlisiso di tla reboelwa Bakgatlhegi le Baamegi (ka CD) fa ba di kopa.

Bakgatlhegi le baamegi ba na le nako go fitlha ka di **24 Ferikgong 2010** (ga e akaretse paka ya Keresemose) go buisa pegelo ya patlisiso. Ditshwaelo di tshwanetse tsa diriwa ka go kwalela Metago ka

fekese e (011-467-0978) le/kgotsa e-mail e ([turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)) le/kgotsa matlhare a a tladitsweng a ditshwaelo a ka fiwa baemedi ba ba kwadilweng fa godimo mme Metago e tla dira dithulaganyo tsa go di tsaya.

Ditshwaelo tsotlhe tse di amogetsweng di tla akarediwa mo pegelong ya bofelo ya patlisiso e e tla romelwang kwa bathating ba ba maleba jaaka karolo ya tiro ya tshekatsheko ya tikologo.

Fa o na le dipotso dingwe ka porojeke e e tshitsinngwang kgotsa tiro ya Tshekatsheko ya go amega ga tikologo, o kopiwa go golagana le bao ba kwadilweng fa tlase.

Ka tlotlo



Alex Pheiffer (PrSciNat)

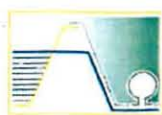


Stella Moeketse



Natasha Daly

Mo boemong jwa Metago Environmental Engineers (Pty) Ltd



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Project Reference: T020-02

10 November 2010

**TURQUOISE MOON TRADING 157 (PTY) LTD**  
**ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED MOONLIGHT AND DE LOSKOP**  
**IRON ORE PROJECT**  
**SCOPING REPORT AND SUMMARY FOR REVIEW**

Dear Sir/Madam

**1. INTRODUCTION**

As you are aware, Turquoise Moon Trading 157 (Pty) Ltd (Turquoise Moon) has mining and exploration-related interests in the Limpopo Province. The iron ore prospects cover two areas, referred to as the Moonlight and De Loskop areas, respectively. Turquoise Moon intends to develop an iron ore mine at the Moonlight area and conduct mining exploration activities at the De Loskop area. The overall project is known as the Moonlight and De Loskop Iron Ore project. This is a summary on the **Moonlight** and **De Loskop** project areas.

**2. PROJECT OVERVIEW**

The De Loskop area is located off the R521, near Dendron, approximately 50 km north north west of Polokwane (Appendix 1). The proposed De Loskop operations will comprise exploration activities only including drilling of boreholes and trenching. No permanent infrastructure is planned in the De Loskop area.

The Moonlight area is located along the N11 between Mokopane (Potgietersrus) and the Botswana border, near to the town of Marnitz, and approximately 60 km north and 145 km north-west of Lephalale (Ellisras) and Polokwane, respectively (Appendix 1). In broad terms, the proposed Moonlight mining operation will comprise an open pit mine, mineral processing facilities, mine residue disposal facilities and various support infrastructure and services. Initially the project scope as presented in the background information document (BID) and scoping meetings, included an iron-making plant at the Moonlight site. Due to various environmental and technical considerations, this iron-making plant (and associated facilities) has subsequently been excluded from the project scope.

**3. PROCESS OVERVIEW**

The environmental assessment process comprises three phases: an application phase, scoping phase and environmental impact assessment (EIA)/environmental management programme (EMP) phase. The process



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is currently in the scoping phase. The main purpose of the scoping phase is to set out all project-related environmental issues; to identify and outline what investigations need to be conducted; and to detail how these investigations will be performed. The terms of reference for these investigations will enable the meaningful assessment of all relevant environmental and social issues.

#### 4. DOCUMENTS FOR REVIEW

The scoping report for the proposed project is available for public review. The following documents have been extracted from the scoping report and attached to this letter for your perusal:

- Issues table incorporating issues raised to date by interested and affected parties (IAPs) and responses from the project team (attached as Appendix 2)
- Plan of study for the next phase including terms of reference for additional work and/or specialist studies (attached as Appendix 3).

#### 5. REVIEW OF SCOPING REPORT

In addition to the scoping summaries that have been distributed (to all IAPs that are registered on the project's public involvement database), full copies of the scoping report will be made available for public review at the following places from 15 November 2010:

<u>Moonlight project area</u>	<u>De Loskop project area</u>
<ul style="list-style-type: none"> <li>• Koedoesrand Farmer's Union (C/o Eloise Deetlefs)</li> <li>• Baltimore Post Office (Anya Hawenga, Mondays and Thursdays)</li> <li>• Ga-Seleka tribal authority (C/o Kgosi Seleka)</li> <li>• Marnitzkraal Lodge (C/o Joan Jackson)</li> <li>• Koedoesrand Grondeienaars Forum (C/o Riaan de Beer)</li> <li>• Lephalale Public Library (C/o Hazel Mashaba)</li> <li>• Lephalale Local Municipal Offices (C/o Mr Eben Badenhorst)</li> </ul>	<ul style="list-style-type: none"> <li>• Dendron public library (C/o Daphney Mabala)</li> <li>• LEDET's office in Dendron (C/o Moses Phweha)</li> <li>• Molemole Local Municipal Offices (C/o Tebogo Seabi)</li> <li>• Aganang Local Municipal Offices (C/o William Mathekgane)</li> <li>• Moletsi Tribal Office (C/o Kgosi Moloto)</li> <li>• Transvaal Agricultural Union (C/o Marie Helm)</li> <li>• A copy for each of the following villages: Ga-Sako and Legotlhong villages on the farm Triest 192LS, Ga-Kolopo and Sekuruwe villages on the farm Persie 200LS, Sekuruwe and Ga-Morora villages on the farm Westheim 191LS and Makgalong village on the farm Van Wyksput 201LS.</li> </ul>

A full copy of the report is also available at Metago's offices in Fourways, Johannesburg (Monday to Friday, 08h00 to 17h00). Electronic copies of the full scoping report will be made available to IAPs on request (on a CD).

IAPs have until **24 January 2010** (this excludes the Christmas holiday period) to review the scoping report. Comments should be submitted in writing to Metago via fax (011-467-0978) and/or e-mail ([turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)) and/or completed comments sheets can be dropped off with the representatives listed above and Metago will arrange to collect these.

All received comments will be included in the final scoping report that will be forwarded to the relevant authorities as part of the environmental assessment process.

#### 6. ADDITIONAL SCOPING MEETINGS REQUESTED BY STAKEHOLDER GROUPS

During the initial scoping process, stakeholder groups requested Metago to hold additional meetings. In this regard, the following meetings are planned:

In the Moonlight area:

- A public scoping meeting with the Ga-Seleka communities is planned for 12 November 2010 at the Ga-Seleka Community Hall. The notification for this meeting has been done through the Ga-Seleka Tribal Office as agreed to during the focussed scoping meeting. The purpose of this meeting is to present the project and environmental assessment process to the broader communities as mentioned above, discuss potential issues to be investigated further, and to agree on the way forward. Minutes of these meetings will be included in the final scoping report.
- A follow up scoping meeting is planned for 13 November 2010 in Baltimore at the Koedoesrand Farmer's Union Hall. The time of the meeting is 10h30. The notification for this meeting was done through the Koedoesrand Grondeienaars Forum as agreed to during the Moonlight public scoping meeting. The purpose of this meeting is to discuss the scoping report.

In the De Loskop area:

- Scoping meetings with various villages/communities within the De Loskop project area are being planned for the 1<sup>st</sup> week December 2010. The exact dates, times and venues for the meetings still need to be confirmed with community representatives. The purpose of these meetings is to present the project and environmental assessment process to the broader communities as mentioned above, discuss potential issues to be investigated further, and to agree on the way forward. Minutes of these meetings will be included in the final scoping report.

If you have any questions about the proposed project or the EIA process, please contact the undersigned.

Regards

  
Alex Pfeiffer (PrSciNat)

  
Stella Moeketse

  
Natasha Daly

For Metago Environmental Engineers (Pty) Ltd



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Projekverwysnommer: T020-02

10 November 2010

**TURQUOISE MOON TRADING 157 (EDMS) BPK**  
**OMGEWINGSINVLOEDEVALUERING VIR DIE VOORGESTELDE MOONLIGHT- EN DE LOSKOP-  
YSTERERTS-PROJEK**  
**TREFWYFTEVERSLAG EN OPSOMMING VIR OORSIG**

Dear Sir/Madam

**1. INLEIDING**

Soos u reeds bewus is, het Turquoise Moon Trading 157 (Edms) Bpk (Turquoise Moon) mynbou- en verkenningsverwante belange in die Limpopo-provinsie. Die ystererts-vooruitsigte dek twee areas, waarna onderskeidelik as die Moonlight- en De Loskop-gebiede verwys word. Turquoise Moon beoog om 'n ysterertsmyne in die Moonlight-gebied te ontwikkel en om mynbou-verkennende aktiwiteite in die De Loskop-gebied te verrig. Die globale projek staan bekend as die **Moonlight** en **De Loskop** Ystererts-projek. Hierdie opsomming is op die Moonlight en die De Loskop-projekgebiede.

**2. OORSIG VAN PROJEK**

Die De Loskop-gebied is af van die R521, naby Dendron, ongeveer 50 km noord-noordwes van Polokwane (Bylae 1) geleë. Die voorgestelde De Loskop-bedrywighede sal slegs bestaan uit verkennende aktiwiteite wat net die boor van boogate en sote behels. Geen permanente infrastruktuur word vir die De Loskop-gebied beplan nie.

Die Moonlight-gebied area is geleë langs die N11 tussen Mokopane (Potgietersrus) en die Botswana-grens naby die dorp Marnitz, en ongeveer 60 km noord en 145 km noordwes van onderskeidelik Lephalale (Ellisras) en Polokwane (Bylae 1). In breë terme sal die voorgestelde Moonlight-mynboubedryf bestaan uit 'n oopputmyne, mineraal-verwerkingsfasiliteite, mynafval-wegdoeningsfasiliteite en verskeie ondersteunende infrastruktuur en dienste. Aanvanklik het die omvang van die projek, soos in die agtergrondinligtingsdokument (AID) en trefwydte-vergaderings voorghou, 'n yster-vervaardigingsaanleg by die Moonlight-perseel ingesluit. Weens verskeie omgewings- en tegniese oorwegings, is hierdie yster-vervaardigingsaanleg (en die verwante fasiliteite) agterna by die omvang van die projek uitgesluit.



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S Dorman PrEng  
A James PrEng  
B Stobart EAPSA  
S van Niekerk PrEng

Offices:  
Johannesburg and Pretoria, South Africa  
Perth, Australia  
Accra, Ghana





### 3. OORSIG VAN PROSES

The omgewingsevalueringproses bestaan uit drie fases, naamlik 'n aansoekfase, trefwydtefase en 'n fase vir omgewingsinvloedevaluering (OIE)/omgewingsbestuursprogram (OBP). Die proses is tans in die trefwydtefase. Die hoofdoel van die trefwydtefase is om alle projek-verwante omgewingskwessies uiteen te sit; om die ondersoek wat uitgevoer moet word te identifiseer en uiteen te sit; en om besonderhede te verskaf oor hoe hierdie ondersoek uitgevoer gaan word. Die verwysingsterme vir hierdie ondersoek sal betekenisvolle evaluering van alle relevante omgewings- en sosiale kwessies moontlik maak.

### 4. DOKUMENTE VIR OORSIG

Die trefwydteverslag vir die voorgestelde projek is reeds vir oorsig aan die publiek beskikbaar. Die volgende dokumente is uit die trefwydteverslag getrek en word vir u inligting by hierdie brief aangeheg:

- Tabel van kwessies wat tot op datum deur belanghebbende en geaffekteerde partye (BGP's) geopper is en die reaksies van die projekspan (aangeheg as Bylae 2);
- Plan van studie vir die volgende fase, insluitend verwysingsterme vir addisionele werk en/of spesialisstudies (aangeheg as Bylae 3).

### 5. OORSIG VAN TREFWYDTEVERSLAG

Afgesien van trefwydte-opsommings wat versprei is (aan all BGP's wat op die projek se databasis vir openbare betrokkenheid geregistreer is), volledige afskrifte van die trefwydteverslag as vir publieke insae sal beskikbaar wees by die volgende plekke vanaf 15 Novemeber 2010:

<u>Moonlight-projekgebied</u>	<u>De Loskop-projekgebied</u>
<ul style="list-style-type: none"> <li>• Koedoesrand se Boerevereniging (P/a Eloise Deetlefs)</li> <li>• Baltimore se Poskantoor (Anya Hawenge, Maandae en Donderdae)</li> <li>• Ga-Seleka se Stamowerheid (P/a Chief Seleka)</li> <li>• Marnitzkraal Lodge (P/a Joan Jackson)</li> <li>• Koedoesrand Grondeienaars Forum (P/a Riaan de Beer)</li> <li>• Lephalale openbare biblioteek</li> <li>• Lephalale plaaslike Muisipale Kantore (P/a Eben Badenhorst)</li> </ul>	<ul style="list-style-type: none"> <li>• Dendron se openbare biblioteek (P/a Daphney Mabala)</li> <li>• LEDET se kantoor in Dendron (P/a Moses Phweha)</li> <li>• Molemole se Plaaslike Munisipale Kantore (P/a Tebogo Seabi)</li> <li>• Aganang se Plaaslike Munisipale Kantore (P/a William Mathkgane)</li> <li>• Moletsi se Stamkantoor (P/a Kgosi Moloto)</li> <li>• Transvaalse Landbou-unie (P/a Marie Helm)</li> <li>• 'n Afskrif vir die volgendes dorpe: Ga-Sako en Legothong dorpe op die plaas Triest 192LS; Ga-Kolopo en Sekuruwe dorpe op die plaas Persie 200LS; Sekuruwe en Ga-Morora dorpe op die plaas Westheim 191LS en Makgalong dorp of die plaas Van Wyksput 201LS</li> </ul>

'n Volledige afskrif van die verslag is ook by Metago se kantore in Fourways, Johannesburg (Maandae tot Vrydae, 08:00 tot 17:00) beskikbaar. Elektroniese afskrifte van die volledige trefwydteverslag (op 'n CD) sal op versoek aan BGP's beskikbaar gemaak word.

BGP's het tot **24 Januarie 2010** (dit sluit die Desember-tydperk uit) om die trefwydteverslag te bestudeer. Kommentaar moet skriftelik aan Metago voorgelê word, hetsy per faks (011-467-0978) en/of e-pos ([turquoisemoon@metago.co.za](mailto:turquoisemoon@metago.co.za)), en/of voltooide kommentaarblaaie kan afgelewer word by die verteenwoordigers wat hierbo aangedui word en Metago sal reël om dit te laat afhaal.

Alle kommentaar wat ontvang word, sal by die finale trefwydteverslag ingesluit word, wat as deel van die omgewingsevalueeringsproses vir die tersaaklike owerhede gestuur sal word.

#### 6. ADDISIONELE OMVANGSBEPALING VERGADERINGS VERSOEK DEUR BELANGEGROEPE

Tydens die aanvanklike trefwydte proses, het belanghebbende groepe versoek om bykomende vergaderings te hou met die groter gemeenskap. In hierdie verband is die volgende vergaderings beplan:

##### In die Moonlight gebied

- 'n Openbare vergadering met die Ga-Seleka tradisionele gemeenskap word beplan vir 12 November 2010 by die Ga-Seleka Gemeenskap Saal. Die kennisgewing vir hierdie vergadering is gedoen deur middel van die Ga-Seleka tradisionele kantoor soos ooreengekom tydens die fokus trefwydte vergadering. Die doel van hierdie vergadering is om die projek en omgewingsevalueeringsproses aan te bied aan die groter gemeenskappe soos hierbo genoem, verder potensiële kwessies te bespreek wat ondersoek moet word, en om saam te stem oor die pad vorentoe. Notules van hierdie vergaderings sal ingesluit word in die finale trefwydteverslag.
- 'n Opvolg trefwydte vergadering is beplan vir 13 November 2010 in Baltimore by die Koedoesrand Boerevereniging Saal. Die tyd van die vergadering is 10h30. Kennisgewing vir hierdie vergadering is gedoen deur die Koedoesrand Grondeienaars Unie soos ooreengekom tydens die fokus trefwydte vergadering. Die doel van hierdie vergadering is om die trefwydteverslag to bestreek.


##### In die De Loskop Gebied

- Trefwydte vergaderings met verskillende dorpe / gemeenskappe word vir die 1ste week in Desember 2010, in die De Loskop-projek gebied beplan. Die presiese datums, tye en lokale vir die vergaderings moet nog bevestig word met die gemeenskap verteenwoordigers. Die doel van hierdie vergaderings is om die projek en omgewingsevalueeringsproses aan te bied aan die groter gemeenskappe soos hierbo genoem, verder potensiële kwessies te bespreek wat ondersoek moet word, en om saam te stem oor die pad vorentoe. Notules van hierdie vergaderings sal ingesluit word in die Finale trefwydteverslag.

Indien u enige vrae oor die voorgestelde projek of die OIE-proses het, kontak asseblief die ondergetekendes.

Groete

  
Alex Pheiffer (PrSciNat)

  
Stella Moeketse

  
Natasha Daly

Vir Metago Environmental Engineers (Edms) Bpk



**TURQUOISE MOON TRADING 157 (PTY) LTD**  
**MINUTES OF A PUBLIC MEETING HELD WITH GA-SELEKA COMMUNITIES**

DATE	Friday, 12 November 2010
VENUE:	Seleka Community Hall
PROJECT:	Turquoise Moon Trading 157 (Pty) Ltd Moonlight and De Loskop Iron Ore Project
PROJECT NUMBER:	T020-02
PURPOSE:	The purpose of the meeting was to: <ul style="list-style-type: none"><li>• inform the interested and affected parties (IAPs) and discuss the proposed project and environmental assessment process;</li><li>• raise and record environmental issues; and</li><li>• identify possible environmental specialist investigations.</li></ul>
APOLOGIES	See a list of apologies below.
ATTENDANCE:	See attendance register attached in Appendix 1.

**1. OPEN AND INTRODUCTION**

Petrus Molokomme (PM) and Andrew Mocheke (AM) from the Seleka Traditional Council opened the meeting and introduced the project team present at the meeting: Alex Pheiffer (AP), Stella Moeketse (SM) and Natasha Daly (ND) from Metago Environmental Engineers (Pty) Ltd (Metago).

**2. PRESENTATION ON THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS**

AP from Metago, the independent environmental consultants who were appointed to conduct the environmental impact assessment (EIA) process welcomed and thanked the attendees for their attendance. AP explained that Metago is in the early phase of the EIA process and that Metago is meeting with the Seleka community to share information pertaining to the proposed project and the EIA process that is being undertaken.

SM gave a presentation on the proposed project and the environmental authorisation process being followed. A copy of the presentation is attached in Appendix 2.

**3. DISCUSSION**

A number of issues were raised by interested and/or affected parties (IAPs) present in the meeting. These 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.

**Table 1: Issues raised by IAPs and the response given by the project team**

Issue	Raised by whom	Response given by AP
<b>Procedural related issues</b>		
Do the three farms that are going to be affected by the mine fall under Seleka Traditional Council?	Joseph Malate	The three farms are privately owned by the white farmers.
You need to investigate the three farms that are going to be affected by the mine and find out if they are not under claims.	Rausibe Sittlatjile	The Office of Land Claims Commission has confirmed that there are no land claims.
Who did Metago communicate with in this area before meeting with us today?	Moses Maletle	Metago met with the Seleka Traditional Council in the presence of the chief. It was agreed in that meeting that Metago should come back and share information with the broader Seleka communities.
We were not informed of this meeting in advance that is why this hall is not full to the capacity. We would have preferred to have had our caucus meeting before meeting with Metago.	Moses Maletle Joseph Maletle	Seleka Traditional Council helped us make arrangement for this meeting including informing the communities of today's meeting.
The mine should have a relationship with the local chief and the people who stay close to the mine.	Aaron Mokgehle	Noted.
How is Metago going to keep communication between us intact?	Ketabo Ntwatse	Metago and Turquoise Moon will keep communicating with all the registered IAPs throughout the EIA process until the authorisation has been granted. Turquoise Moon will develop a plan on how it will keep communicating with the Seleka Traditional Council for the life of the mine and that is provided they are given a positive record of decision (RoD).
Why are we all here?	Joseph Malate	We are all here to share information about the proposed project and the EIA. We are also here so that Metago can learn more about the neighbouring area and the issues from the IAPs.
Did the chief and the traditional councillors sign any documents?		No one signed any documents other than the attendance register.
We need to establish task teams on each and every villages so that information can reach the people.	Gregory Invesa	Noted.
We can also use the ward committees that are already in place in the villages because the task teams have proven to be inefficient from our experience in this area.	Rausibe Sittlatjile	Noted.
Metago should communicate with us through our traditional council and no other body and/or structure.	Mmupi Moloto	Noted.
It is good that the people have asked questions. I would kindly request our people to let Metago and Turquoise Moon make investigations and let them come back and give us feedback.	Isaiah Bopane	Noted.
<b>Blasting</b>		
How will the blasting activities affect our houses?	Elizabeth Sebeng Maeteletja	A specialist study will be undertaken and all the impacts and mitigations will be addressed in the EIA/EMP report. It must be noted that the impacts and mitigations will depend on: the distance of houses from the mine, the type of blasting that will be used and
I live fairly close to the farms, what is the mine going to do should my house be affected by the operations particularly blasting activities?	Frans Maeteletja	

Issue	Raised by whom	Response given by AP
		the input from the specialist.
<b>Heritage and paleontological resources</b>		
What is going to happen to the graves that might be on the farms that are going to be affected by the proposed project?	Josiah Molebatsi	A specialist study will be undertaken and all the impacts and mitigations will be addressed in the EIA/EMP report.
I am concerned that the graves are normally not treated with respect.	Aaron Mokgehle	
<b>Socio-economic – welfare/health</b>		
How will the proposed project affect the health of the people (on site and off site)?	Phillip Sigala	Noted. This will be addressed in the EIA/EMP report.
Some of the farms have black people who have been reciting for a very long, what is going to happen to them should the mine go ahead?	Mogetle	We will only know the answer when the facts have been confirmed. This will be addressed in the EIA/EMP report.
If the mine will employ 500 temporary employees, what is going to happen to some of these people should they get sick or die as result of having worked at the mine?	Johannes Lekaine	Noted. This will be addressed in the EIA/EMP report.
<b>Socio-economic – employment/benefits</b>		
How is the community going to benefit?	Daniel Motlogelwa	Noted. This will be addressed in the EIA/EMP report.
Turquoise Moon needs to empower the local communities instead of out sourcing everything from other provinces such as Gauteng and the Western Cape. Lephale area has the capabilities to undertake some of the jobs at the mine.	Aaron Mokgehle Rausibe Sitlatjile	Noted. This will be addressed in the EIA/EMP report.
What will be the terms of employment?	Aaron Mokgehle Jacob Mocheke	
Will there be a trust fund and shares in the mine for the local communities?	Aaron Mokgehle	Noted.
Out of 210 people that will be employed at the mine, what will be the ration between skilled and unskilled labourers?	Mmupi Moloto	Noted. This will be addressed in the EIA/EMP report.
Colleges such as FET in the area should be used to train the labourers that will be employed at the mine.	Selo Matlaine Rausibe Sitlatjile	Noted. This will be addressed in the EIA/EMP report.
We need our people to have a solid education background that will encompass mathematics and sciences amongst others.		
Turquoise Moon should also consider working together with its counterparts and build higher education institutions in the area and/or Lephale area or re-open the existing ones.	Selo Matlaine	Noted. This will be addressed in the EIA/EMP report.
Where will the temporary employees come from?	Rausibe Sitlatjile	

#### 4. THE WAY FORWARD

The way forward is as follows:

- It was agreed with all the IAPs present at the meeting that all information will be communicated via the Seleka Traditional Council;
- A copy of the scoping report will be made available for public review at the Seleka Traditional Council Office;
- Specialist studies will be undertaken and the results of the reports will be incorporated in the EIA/EMP report which will be made available for public review at the Seleka Traditional Council Office;

- All the registered IAPs who have provided Metago with their postal addresses and e-mail addresses will receive a copies of the Setswana and English summary which will inform them where full reports (scoping report and EIA/EMP) can be reviewed;
- Short text messages (sms) will also be send to all the registered IAPs to inform them where full reports (scoping report and EIA/EMP) can be reviewed; and
- If requested, Metago will be available for a feedback meeting with the community.

**5. CLOSE**

AP thanked everyone for attending and closed the meeting.

**APPENDIX 1: ATTENDANCE REGISTER**

Name	Interest	Postal Address	Telephone	Email / Fax
Alex Pheiffer	Metago	P O Box 1569	011 467 0945	<a href="mailto:alex@metago.co.za">alex@metago.co.za</a>
Stella Moeketse	Environmental Engineers	Cramerview 2060		<a href="mailto:stella.moeketse@metago.co.za">stella.moeketse@metago.co.za</a>
Natasha Daly				<a href="mailto:natasha.daly@metago.co.za">natasha.daly@metago.co.za</a>
Andrew K Mocheke	Seleka Traditional Council	P O Box 229 Seleka 0609	076-491-330	
L P Molokomme		P O Box 372 VaalWater 0536	014-764-1002 082-539-8109	
Nakampe Victor Monyepao		Priavte Bag X136 Lephalale 0555		<a href="mailto:Victor.Monyepao@lephalale.gov.za">Victor.Monyepao@lephalale.gov.za</a>
Randei Jack Mosima		P O Box 411 Seleka 0690	072-544-3734	
Richard Matlamela		P O Box 150 Seleka 0690	084-437-7906	
Ryder Kgomo		P O Box 86 Seleka 0690	083-341-9204	
Jonas Machaba		P O Box 150 Seleka 0690	072-544-3734	
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Abel Mosima		P O Box 1043 Lephalale 0555	078-300-7272	
William Morudu		P O Box 86 Seleka 0690	076-498-2830 076-090-0954	
R I Radipabe		P O Box 126 Seleka 0609	072-498-2830	
D R Masenya		P O Box 1 Seleka 0690	071-341-4987	
Alpheus Makgae		P O Box 1209 Lephalale 0555	072-521-2947	
Frans Ramotebele		P O Box Segale 1043	082-761-7589	
Mamabolo Jack Mmutlana		P o box 571 Lephalale 0555	072-373-5898	
Mmupi Moloto		P O Box 571 Lepahalale 1043	072-772-8088	
Kabelo Majadibodu		P O Box142 Seleka 0690	073-671-4710	
Baitseng Moroka		P O Box 2 Tom burke 0621	079-576-2173	
Rausibe Setlatjile	Lepahalale Ward Councillor Ward 2	P O Box 206 Seleka 0690	082-306-9447	
Aaron Mokgetle		P O Box 6 Tom Burke	082-760-6991 072-096-1554	

		0609		
Marcus Mokono		P O Box 86 Seleka 0690	073-797-7782	
Kwena Stanley Ranot		P O Box 86 Seleka 0690	073-015-1173	
Machaba Jonas Ngoato		P O Box 411 Seleka 0690	072-544-3734	
Esrom Setlhare		P O Box 142 Seleka 0690	076-465-8556	
Anna Shongoane	Senoela		082-052-8999	
Alfred Matshigoa	Senoela		082-052-8999	
Piet Motsuki	Tlapa Le Borethe			
Nathaniel Ditsela			079-831-7907	
Isaiah Bopane	Madibaneng		073-868-1384	
Alfred thalloa	Kaekeese		073-130-5509	
J Moloantoa	Mahlasedi	P O Box 329	072-407-7614	
Moses Maletje	Seleka		079-138-7927	
F Giba			084-212-5163	
Daniel Motlogelwa	Seleka	P O Box 97 Seleka 0609	079-356-9219	
Alpheus Mafisa	Lerupurung		073-592-4357	
B J Moletje	Reabetswe	P O Box 1344 Seleka 0609	078-859-4711	
Joseph S Maletje	Seleka	P O Box 39 Seleka 0609	072-145-5185	
Gabriel Seleka	Seleka	P O Box 163 Seleka 0609	078-143-8603	
N E Hlako		P O Box 94 Seleka 0609	078-316-0803	
M E Moletje		P O Box 380 Seleka 0609	083-464-675	
M V Otsweleng		P O Box 94 Seleka 0609	078-013-3478	
Christinah Matshaba		P O Box 328 Lephalale 0555	073-090-9293	
M B Matlou		P O Box 02 Tom burke 0621	073-570-7525	
S W Mokgehle	Botsalanong	P O Box 17 Seleka 0609	092-075-5204	
M E Sebueng Maeteletja		P O Box 243 Lephalale 0555	083-319-2146	
Sam Maeteletja		P O Box 243 Lephalale 0555		
Lucy Tshimole Maeteletja		P O Box 243 Lephalale 0555	072-652-4508	
Frans Maeteletja		P O Box 243 Lephalale	071-257-5729	



		0555		
Hosea Thabo Moatshe	Ga- Seleka Motlhasedi	P O Box 572 Seleka 0609	071-549-1633 073-852-4103	<a href="mailto:vibe@gmail.com">vibe@gmail.com</a>
Jan Maeteletja		P O Box 243 Lephalale 0555		
Zachariah Mathopa	Tlapa Borethe Le	P O Box 243 Lephalale 0555	078-609-4339	
M E Mashilo	Lepurupurung	P O Box 1004 Lephalale 0555	078-153-1012	
Phillip Moroka				
Philemon Matebele				
Zachariah Thuthuwa				
R W Moruwe		P O Box 31 Seleka 0609	078-666-9295	
Salome Ribese		P O Box 1043 Lephalale 0555	073-638-0668	
Caroline Bopape		P O Box 1043 Lephalale 0555	079-716-9467	
Lydia Ribese		P O Box 1043 Lephalale 0555	073-376-4534	
L M Kekae		P O Box 234 Lephalale 0555	071-390-9300	
Phillip Sekgaga		P O Box 234 Lephalale 0555	082-340-4665	
Zachariah Maeteletja		P O Box 901 Ellisras	083-686-8456	
Gustaph Moroka		P O Box 5 Seleka 0609	072-579-4738	
Meshack Moediba	Kauletsi		073-733-2422	
Koos Magwwai	Kauletsi		078-298-1026	
Peter Witshiloana	Kauletsi		078-363-6224	
Simon Malia	Seleka		082-838-3069	
Jacob Mocheke	Seleka		076-861-8318	
George Moroka	Seleka		076-482-0394	
Kinesheng	Seleka		082-055-8782	
Lucas Shika		P O box 243 Lephalale 0555	082-969-9811	
Josias Chauke				
M T L Monare		P O Box 142 Seleka 0609	072-925-1110	

APPENDIX 2: PRESENTATION

**TURQUOISE MOON TRADING 157  
(PTY) LTD**

**ENVIRONMENTAL ASSESSMENT FOR THE  
PROPOSED MOONLIGHT AND DE LOSKOP  
IRON ORE MINE**



**PUBLIC SCOPING MEETING**

**metago**  
Environmental Engineers (Pty) Ltd

**12 November 2010**

**AGENDA**

- \* Registration
- \* Welcome and opening
- \* Environmental process overview
- \* Project overview
- \* General discussion
- \* Close



**ENVIRONMENTAL PROCESS**

**What?**

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

**ENVIRONMENTAL PROCESS**

**Why?**

- \* Legal requirement
- \* It is the right thing to do

**ENVIRONMENTAL PROCESS**

**How?**

- \* Participation of interested and affected parties
- \* Specialist investigations
- \* Reporting
- \* Decision making

**ENVIRONMENTAL PROCESS**

**Who makes the decisions:**

- \* Department of Mineral Resources (DMR)
- \* National Department of Environmental Affairs
- \* Department of Economic Development, Environment and Tourism (DEDET)

## ENVIRONMENTAL PROCESS

### Authority involvement:

- Department of Water and Environmental Affairs (DWEA)
- National Department of Agriculture
- Limpopo Department of Parks and Tourism
- Department of Land Affairs
- South African Heritage Resource Agency (SAHRA)
- Limpopo Heritage Resource Agency (LIHRA)
- Limpopo Department of Roads and Transport
- Lephalale Local Municipality
- Waterberg District Municipality

## ENVIRONMENTAL PROCESS

### Different stages?

- \* Scoping phase
- \* Environmental Impact Assessment and Environmental Management Programme (EIA/EMP) phase

## ENVIRONMENTAL PROCESS

### The purpose of today's meeting

- \* Understand the process
- \* Raise and record environmental issues
- \* Identify possible specialist investigations

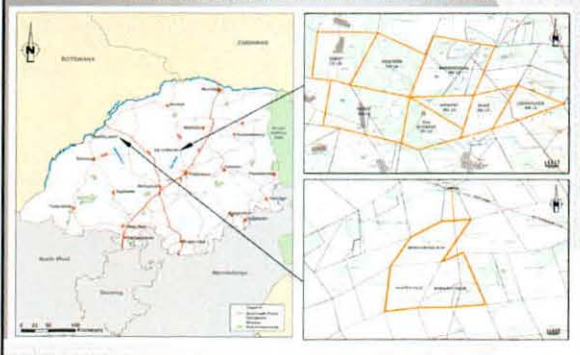
## ENVIRONMENTAL PROCESS

### How does this help you?

#### Scoping report

- \* Sets out all issues that have to be investigated further
- \* Sets out how these investigations will be performed
- \* "Agreed approach" between the public, authorities and the project team

## LOCAL SETTING OF THE PROJECT AREA



## DESCRIPTION OF MOONLIGHT PROJECT MINING & PROCESSING

**Farms** – Gouda Fontein, Moonlight, Julietta

**Resource** – iron ore, manganese ore, nickel, limestone, marble

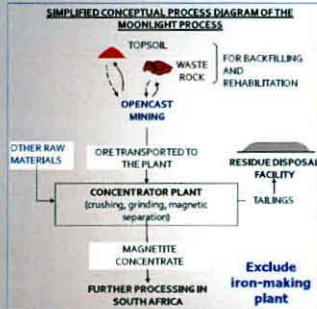
**Mining method** – opencast

**Production rate** – ± 116 000 tonnes magnetite concentrate per month

**Life of mine** – life of 30 years (starting 2012 with construction, 2016 full production)

**Workforce** – ±500 temporary, ±210 operational

## OVERVIEW OF POSSIBLE PRODUCTION PROCESS



### ALTERNATIVES BEING CONSIDERED

- \* Development sites
- \* Site layout options
- \* Transport
- \* Water supply
- \* Power supply
- \* Sewage sludge
- \* "No-go" option

## SUPPORT FACILITIES/SERVICES

- \* Construction borrow pit(s)
- \* Temporary construction yard and offices
- \* Mining contractor area to support mining fleet
- \* Material/waste storage and handling area(s)
- \* Water management facilities
- \* Water and power supply facilities
- \* Communication and lighting facilities
- \* Helipad and airstrip
- \* Sewage treatment facilities
- \* Administration, security, access control
- \* Laboratory, staff medical station
- \* Housing facilities?

## POTENTIAL ENVIRONMENTAL IMPACTS

- \* Loss and sterilisation of mineral resources
- \* Change in topography
- \* Impact on soil, land capabilities and land uses
- \* Traffic
- \* Impact of blasting activities
- \* Impact on natural vegetation and animal life
- \* Hydrology (alteration of drainage patterns)
- \* Groundwater contamination and lowering of levels
- \* Dust generation
- \* Increase in noise levels
- \* Impact on heritage resources
- \* Visual impact
- \* Socio-economic impacts (positive and negative)

## QUESTIONS

## WAY FORWARD

- Distribute scoping report (November 2010)
- Regulatory authority and public review (40 days from distribution)
- Specialist EIA investigations (next 3 to 6 months)
- Distribute EIA/EMP report (April 2011)
- Distribute record of decisions (2<sup>nd</sup> half 2011)

## LOGISTICS

### Environmental reports:

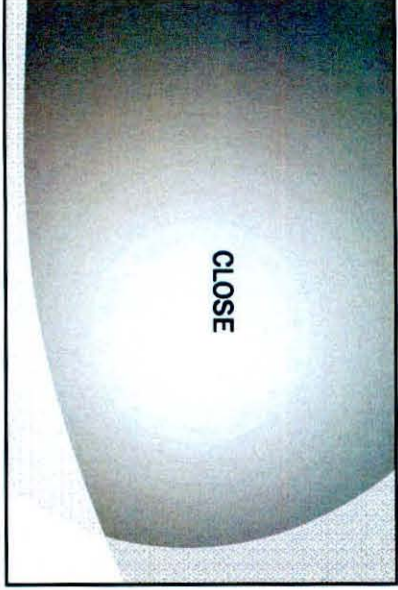
- \* Full reports – English
- \* Summaries – English / Setswana

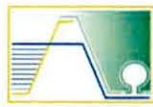
### Summaries & newsletters:

- \* via post or e-mail

### Full reports:

- \* Farmer's Union
- \* Seleka Tribal Office
- \* Koedoesrand Forum
- \* Baltimore Post Office
- \* Marnitzkraal Lodge





**TURQUOISE MOON TRADING 157 (PTY) LTD**

**MINUTES OF FOCUSED SCOPING REVIEW MEETING - KOEDOESRAND LANDOWNERS FORUM**

DATE	Saturday, 13 November 2010
VENUE:	Koedoesrand Farmers Hall
PROJECT:	Proposed Moonlight and De Loskop iron ore project
PROJECT NUMBER:	T020-02
PURPOSE:	The purpose of the meeting was to: Provide IAPs with an update of the project; To discuss the terms of reference for the studies; and To discuss and record comments on the terms of reference.
APOLOGIES:	No apologies
ATTENDANCE:	See attendance register attached in Appendix 1.

**1. OPEN AND INTRODUCTION**

The meeting was opened by Alex Pheiffer (AP) from Metago Environmental Engineers (Pty) Ltd (Metago), the independent environmental consultants who were appointed to conduct the environmental impact assessment (EIA) process. She welcomed all attendees and thanked them for their time. She introduced the project team: Natasha Daly (ND) and Martin Holland (MH) from Metago. The meeting was held in Afrikaans and English. Upon registration, all attendees were provided with a copy of the Afrikaans scoping summary document.

**2. PRESENTATION**

AP gave a presentation on the proposed project and the environmental authorisation process being followed. A copy of the presentation is attached in Appendix 2.

**3. DISCUSSION**

A number of issues were raised by interested and/or affected parties (IAPs). These have been recorded in Table 1 below. Where a response was provided this has also been included in the table.

**TABLE 1: ISSUES RAISED BY IAPS**

<b>Issue</b>	<b>Raised by whom</b>	<b>Response given by AP</b>
<b>Procedural related issues</b>		
The answers given within the scoping report summary are blatant lies. 50% of EIA's are pathetic, the methods and management measures are inadequate.	Eli Stroh	Your comments have been noted.
Mining companies say that landowners have a say, this is however not true, landowners are given the opportunity, but mining companies will proceed with or without a landowners consent.	Joan Jackson	
I am aware that the state holds the mineral rights and therefore companies who have been issued a mining license are legally allowed to conduct mining activities on farms, regardless of who holds the surface rights. Surface rights held by the landowners are just as important. A mining right should not be categorised as being more important.	Eli Stroh	
We do not like the fact that there are two different projects within the same process. It is confusing.	Riaan De Beer	As the projects fall under the one right, one report must be produced. The report however will be split into two sections to cater for each projects area.
If the mine buys our properties we will not complain.	Nico Lombard	Noted.
What motivates the specialists to want to do these investigations? Is there any benefit from them?	Giel Du Preez	The specialist are appointed by Metago as independent specialists.
The scoping summary mentions that meetings were held yesterday (12 November 2010). What were these meetings about? We would like to see the attendance register of who attended these meetings, agenda of the meeting, the questions raised and the responses provided.	Eli Stroh	Scoping meetings were held with the regulatory authorities in the morning and the Ga-Seleka community in the afternoon. The meeting minutes will be included in the updated scoping report. A copy of this report will be given to Riaan De Beer.
<b>Rehabilitation</b>		
How can we be sure that money will be put aside for rehabilitation costs?	Giel Du Preez	A financial provision is a legal requirement. The actual amount is determined by specialists, using specific guidelines as set out by the Department of Mineral Resources. This amount is updated every year to cater for any changes. The financial provision is given to the DMR, usually in the form of a band guarantee.  A copy of the guarantee can be forwarded to you. Please note that this will only be done near the end of the decision making process, it a positive decision is taken by the decision making authorities.
Placing money into a trust fund prior to any mining activities commencing is inefficient, because once a mining company has been liquidated, there will be no money to rehabilitate anything, even if a rehabilitation plan is in place.	Eli Stroh	
We will not allow any mining activities to commence without a guarantee that the financial provision is in place.		
We want to see the mining license once it has been granted.	Giel Du Preez	This can be arranged.
This land was given to us by God. What gives Turquoise Moon the right to take it away from us? Why do we not have any rights? It is clear that money has more	Eli Stroh	Noted.



<b>Issue</b>	<b>Raised by whom</b>	<b>Response given by AP</b>
say than anything else.		
<b>Technical project related issues</b>		
How deep is the ore body?	Simon Van Niekerk	The ore body is anticipated to be 165m deep.
The summary document indicates that none of the immediate farms have been bought by Turquoise Moon. This is a lie, as the farms have been bought.	Eli Stroh	Metago is responsible for conducting the environmental assessment process. Landowner agreements are handled between Turquoise Moon and the relevant landowners.
What will the footprint of the tailings dam be?	Giel Du Preez	This is unknown at this stage of the project. A professional engineer will be appointed to do a conceptual design of the tailings dam, which will amongst other things define the dimensions of the dam. This information will be included in the EIA/EMP report.
Will the tailings dam design be in the report?		Yes.
How were you able to determine the annual cost to operate if you don't know what the water costs?	Simon Van Niekerk	The figure provided is an estimate and will be refined during the course of the project.
<b>Water</b>		
What are you going to do about the inflow of groundwater into the open pit?	Giel Du Preez	Alternative water supply options and impacts on water resources are being investigated as presented in the slide show.
We rely on groundwater which is fed by rain water. The mine is going to collect that rain water and take it from us.	Eil Stroh	
There is no water in the Limpopo River. It is not running. There is not enough water to cater for the proposed mining operations.	Giel Du Preez	
You mentioned that as an alternative, water may be sourced from Thabazimbi. The farmers in Thabazimbi use that water for irrigation. What gives Turquoise Moon the right to take that water away from those farmers?	Eli Stroh	
There is not enough water for our cattle. I have to get water from my neighbour.		
Groundwater will be more influenced the deeper the mining operations go. What will be done with the sludge and how will dewatering impact surrounding groundwater?	Eli Stroh	
Why will the hydrocensus only cover a 10km radius if the water supply study will cover a 20km radius?	Simon Van Niekerk	
How will Turquoise Moon compensate us for the loss of groundwater?	Louw van Staden	Specific management measures, if required will be included in the EIA/EMP report.
<b>Air Quality</b>		
How will you be able to correctly investigate the impact that blasting activities will have on the surrounding air quality if the specialist study is conducted prior to any blasting activities having taken place? Specific information on the material will be blasted is needed.	Simon Van Niekerk	The appointed specialist will investigate this impact by means of modelling. Before any modelling can be done, the specialist needs to understand the characteristics of the material that will be blasted, what time blasting activities will occur, and the number of blasts. This information will be used to determine

Issue	Raised by whom	Response given by AP
		the contribution of blasting to air related impacts. It should be noted that in some cases site specific data may not be available in which case certain assumptions are made. These details will be included in the specialist report and EIA/EMP report.
Any modelling of air quality impacts from blasting is inadequate and does not show a true picture.		Your comment is noted.
<b>Traffic</b>		
I am concerned about the impact that transportation will have on our local roads. The roads will be destroyed.	Gerhard Visser	Alternative transport options are being investigated as presented in the slide show. A traffic specialist will be appointed to investigate traffic related issues.
<b>Visual</b>		
We are concerned about the aesthetic impact that the proposed project will have towards the surrounding environment.	Riaan De Beer	A visual specialist will be appointed to investigate this issue.
<b>Socio-economic employment, housing of workers and associated issues</b>		
It should be noted that the Koedoesrand District farmers employs approximately 9200 workers. The mine will only employ 210 workers. We would like to understand the motivation for establishing this project in this area as it is lacking in comparison to the employment of the Koedoesrand District.	Nico Lombard	Noted. This will be addressed in the socio-economic study.
<b>Socio-economic: land values, livelihoods, safety and crime</b>		
An ecologists needs to be appointed that will focus on the turnover of tourism in this area.	Joan Jackson	Metago is looking for a specialist to investigate this issue. If you have any suggestions, please forward this information onto Metago
I have a contact from the University of Pretoria who will be able to assist in this study.		Thank you for your input.
I am concerned about the increase in poaching.	Nico Lombard	Your comment has been noted and will be addressed in the socio-economic study.
I am aware that all the studies that will be conducted will come up with solutions to mitigate the proposed impacts. However what will happen to the future generations? This area is a farming area. It is not meant for mining iron ore. Nobody is going to eat iron ore. This area is not the correct place to develop a mine.		Your comment has been noted.

#### 4. THE WAY FORWARD

The following way forward was agreed to at the meeting:

- The final scoping report will be updated to include comments received during today's meeting (Appendix 3), additional comments received during the review period, including the minutes of today's meeting;
- Final copies of the scoping report will be submitted to the Department of Economic, Development, Environment and Tourism as part of the review process; and
- Metago will also forward a copy of the final scoping report to the Koedoesrand landowners forum.

**5. CLOSE**

AP thanked everyone for attending and closed the meeting.

**APPENDIX 1: ATTENDANCE REGISTER**

Name	Interest	Postal Address	Telephone	Email / Fax
Alex Pheiffer	Metago Environmental Engineers (Pty) Ltd – project manager	PO Box 1569 Cramerview 2060	011 467 0945	<a href="mailto:alex@metago.co.za">alex@metago.co.za</a>
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Stella Moeketse				<a href="mailto:stella.moeketse@metago.co.za">stella.moeketse@metago.co.za</a>
PJ Gouws		PO Box 92 Tom Burke 0621	082 371 8218	<a href="mailto:pip@lantic.net">pip@lantic.net</a>
JD Fodu		PO Box 34 Baltimore	014 467 1240	
Nico Lombard			082 774 1700	
Chrisjan Havenga		PO Box 12 Baltimore	082 254 4176	
Johan Botha	Journalist-Projek Aardwolf - Kyknet		082 815 2939	<a href="mailto:grotman@grotman.co.za">grotman@grotman.co.za</a>
Johan Vogel	Landowners	PO Box 57 Tom Burke 0621	082 394 1507	<a href="mailto:vogel@absamail.co.za">vogel@absamail.co.za</a>
Chris Van Zyl	Land owner	PO Box 108 Tom Burke 0621	083 568 1554	<a href="mailto:vzyl.chris@gmail.com">vzyl.chris@gmail.com</a>
Josef Espog	Windhoek farm employee	PO Box 84 Baltimore	082 810 8254	<a href="mailto:josefespog@live.co.za">josefespog@live.co.za</a>
Arie Bornman	Farm owner	PO Box 66 Baltimore	084 515 7742	<a href="mailto:ariebornman@yahoo.com">ariebornman@yahoo.com</a>
Riaan De Beer	Moonlight landowener	PO Box 3553 Polokwane 0700	083 628 1951	<a href="mailto:debeer@telkomsa.net">debeer@telkomsa.net</a>
Andries Van Der Westhuizen	Hantam	Posbus 39 Tom Burke 0621	082 535 4597	
Pieter Fourie	Landowner	PO Box 3688 Nylstroom 0510	082 929 1909	<a href="mailto:pietlin@vodamail.co.za">pietlin@vodamail.co.za</a>
Jan Oberholzer	Winterhoek	PO Box 4 Tolwe 0690	082 805 6807	<a href="mailto:jolober@lantic.net">jolober@lantic.net</a>
Joan Jackson	Marnitzkraal	PO Box 1028 Heidelberg 1438	084 455 5925	<a href="mailto:Joanjackson@vearisk.co.za">Joanjackson@vearisk.co.za</a>
Alec Le Ray		PO Box 68 Baltimore	082 463 2198	
JP Smit	Cosmopolite	PO Box 302 Ellisras	082 804 0053	
S.J Van Wyk	Marnitzkraal	PO Box 1474 Bronkhorstspuit	082 430 3414	
G. Moelman	Marnitzkraal		082 938 6245	
Eli Stroh	Landowner		015 297 5890-7	<a href="mailto:zoetje@elistroh.co.za">zoetje@elistroh.co.za</a>

Name	Interest	Postal Address	Telephone	Email / Fax
			Cell: 082 554 6413 After hrs: 015 297 2764	
L Smuts	Landowner	PO Box 3174 Rooinekkraal 0154	082 378 1747	
M. Spoelstra	Tabana Prop Inv Pty Ltd – Landowner	Postnet Suite 54 Private Bag x 1007 Littlerton 0140	012 661 5875 083 445 0757 (Minderd)	<a href="mailto:rs@tabana.co.za">rs@tabana.co.za</a> <a href="mailto:ms@tabana.co.za">ms@tabana.co.za</a>
C. Coetzee	Landowner		076-310-1933	
Abri Le Roux	Marnitzkraal	Marnitz	082 498 2987	<a href="mailto:accounts@marnitzkraal.co.za">accounts@marnitzkraal.co.za</a>
Guio Deacon	Neighbour	PO Box 75 Swartwater 0622	083 298 7334	<a href="mailto:guidoensusan@yahoo.com">guidoensusan@yahoo.com</a>
JJ Brand	Farm Owner	PO Box 80 Baltimore	082 968 1998	
Elouise Deetlefs	Deals with all the bookings at the venue – Koedoesrand DLU	PO Box 33 Baltimore 0619	084 814 0030	<a href="mailto:kdlu@mweb.co.za">kdlu@mweb.co.za</a>
Poen Oosthuizen		PO Box 91 Baltimore	082 322 2117	
Simon Van Niekerk	Pvt.	PO Box 1 Tom Burke	082 584 8056	<a href="mailto:simonhvn@mweb.co.za">simonhvn@mweb.co.za</a>
Ria Goaws	Tom Burke	PO Box 116 Tom Burke	082 562 9631	
P.H Fourie	Landowner	PO Box 935 Modimolle 0510	082 823 8312	<a href="mailto:phfourietr@telkomsa.net">phfourietr@telkomsa.net</a>
Piet Gouws		PO Box 116 Tom Burke 8621		
CC van der Skyff		PO Box 35 Baltimore	082 898 1719	
D.M.C Ehlers		PO Box 50 Baltimore	082 498 4436	
C.F Kruger	Land owner	PO Box 97 Tom Burke 0621	082 436 9906	<a href="mailto:maritkruger@vodamail.co.za">maritkruger@vodamail.co.za</a>
Dannie Meyer	Landowner	PO Box 7 Baltimore 0619	082 494 4370	<a href="mailto:boekfonteinvervoer@gmail.com">boekfonteinvervoer@gmail.com</a>
Rone Hennop	Marken: Koedoesrand DLU	PO Box 136 Marken 0605	083 645 3082	
P. Badehorst	Baltimore	PO Box 18 Baltimore 0619	082 760 5853	
Roelof Scheeper		Marnitz	PO Box 19 Baltimore 0619	

Name	Interest	Postal Address	Telephone	Email / Fax
L.J Van Satden	Landowner	Private Bag x 2903 Polokwane	015 285 0004 083 296 2510	086 573 1956 <a href="mailto:Louw.v.staden@qijima.com">Louw.v.staden@qijima.com</a>
Anel and Henk Malan	landownere	PO Box 88 Baltimore 0619	082 708 1928 (Anel) 082 851 2151 (Henk)	<a href="mailto:anel.malan@worldonline.co.za">anel.malan@worldonline.co.za</a>
Giel Du Preez	Marnitz	PO Box 88 Baltimore 0619	079879 2943	

APPENDIX 2: PRESENTATION

## TURQUOISE MOON TRADING 157 (PTY) LTD

### ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED MOONLIGHT AND DE LOSKOP IRON ORE



Metago  
Environmental Engineers (Pty) Ltd

#### SCOPING REVIEW MEETING

13 November 2010

## AGENDA

- \* Registration
- \* Welcome and opening
- \* Update on the project
- \* Technical questions on the project plan
- \* Presentation of issues and ToR
- \* General discussion
- \* Close



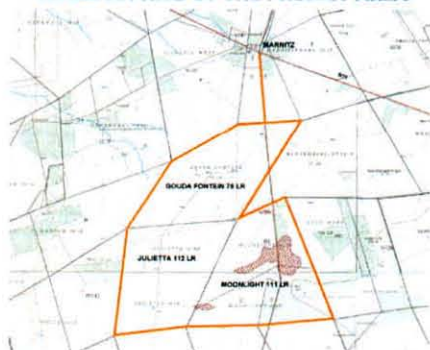
## ENVIRONMENTAL PROCESS

### The purpose of today's meeting

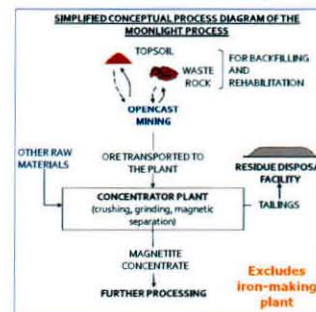
- \* Provide an update on the project
- \* Discuss terms of reference for studies
- \* Hear and record comments on the terms of reference

## EIA PROCESS

## LOCAL SETTING OF THE PROJECT AREA



## OVERVIEW OF POSSIBLE PRODUCTION PROCESS



### ALTERNATIVES BEING CONSIDERED

- Development sites
- Site layout options
- Transport
- Water supply
- Power supply
- Sewage sludge
- "No-go" option



Specific	Statistics
Target mineral	Iron ore, nickel, manganese ore, limestone and marble
Resource estimation	A minimum of 300 million tonnes
Rate of mine	+/- 4.5 million tonnes run of mine per annum
Magnetite concentrate	+/- 1.4 million tonnes/annum
Tailings	+/- 3.1 million tonnes/annum
Water demand	+/- 0.7 million m <sup>3</sup> raw water per annum
Power demand	Between 20 and 40 MW
Staff: construction	+/- 500
Staff: operational	+/- 210
Operating times	24 hrs a day, 7 days a week
Capital investment	Approximately 780 million US dollars
Annual cost to operate	Approximately 84 US Dollars per tonne of concentrate
Life of mine	30 year design life
Timetable	Start 1 <sup>st</sup> half 2012 with full production 2016

### ISSUES THAT WERE RAISED

- [Project alternatives](#) – alternative sites
- [Rehabilitation](#)
- Environment in general and natural resources
- [Affect on current land uses](#) – pollution, noise, blasting
- Groundwater ([pollution](#) and [impact on supply](#))
- [Air quality](#) and [Noise](#)
- [Traffic-related issues](#)
- [Land use](#) (agriculture and tourism including game breeding)
- [Socio-economic](#) (housing, transport for employees, procurement, land values, livelihoods, safety, crime, tourism, pressure on existing services)

### Project alternatives

- **Mine site** fixed due to ore body
- Off-site areas for **iron-making plant** - Lephalale, Mokopane, Polokwane, Thabazimbi and Selebi Phikwe (Botswana). Separate EIA needed. Reasons for excluding on-site options :
  - alternative transport methods, other than road, can be considered for the magnetite concentrate thereby significantly reducing the road transport requirements and influence on public roads;
  - significant power requirements are needed to operate the plant (in the region of 20 to 40 MW);
  - keep the footprint required for the development as small as possible so as to limit impacts on current land uses;
  - reduced volume of mine residue requiring disposal on on-site facility;
  - minimise potential noise, dust and water-related impacts.

### Rehabilitation

- Closure cost estimates calculated in line with the DMR's requirements.
- The DMR guideline document for the Evaluation of the Quantum of Closure-Related Financial Provision Provided by a Mine as published by the Department of Minerals and Energy (DME), dated January 2005 will be used.

### Blasting

- Appropriately qualified blast specialist. Following objectives:
  - to assess the fly rock impact zones and boundaries;
  - to assess vibration impact zones and boundaries; and
  - to have input, together with Metago and the technical project team, into project alternatives and blast management measures going forward.

### Water supply options

- **Metago Water Geosciences.** Sources of water being investigated:
  - recycling of water;
  - collection of rainfall and runoff on site;
  - local/regional boreholes within 20km of the site;
  - dewatering of the mine workings; irrigation schemes within 10 km of proposed project site and near Tolwe/Baltimore;
  - existing water use allocations from the Limpopo and Lephalala Rivers,
  - surface water schemes including the Mokolo Crocodile River Water Augmentation and Olifants River Water Resource Project;
  - catchment transfer from the Crocodile River catchment near Thabazimbi;
  - flood water storage/artificial recharge or a
  - combination of the above.

### Water supply options

- **Selection criteria are:**
  - the sustainability of both the resource and the supply;
  - impact on existing water users;
  - water saving and recovery;
  - water quality; and
  - economic considerations including affordability.
- **Depending on the chosen water supply alternatives:**
  - to identify groundwater water supply sources;
  - to determine the sustainable yield and model the draw down cone;
  - to assess the cumulative impacts on ground water users and ecosystem functionality; and
  - to have input, together with Metago, other specialists and the technical project team, into project alternatives and the management measures going forward.

### Groundwater study

- **Metago Water Geosciences.** Following objectives:
  - to undertake a detailed review of existing available databases;
  - to provide baseline water depths and qualities (surface water and groundwater) in and around the site through a hydrocensus covering a 10 km zone around the project site;
  - to identify all existing lawful water uses within the 10km zone;
  - to identify groundwater (and surface water) users in and downstream of the project area;
  - to identify fractures, faults and other relevant geological features that may be relevant to positioning infrastructure and to assessing the impacts of the various pollution sources;
  - to model contaminant transport for the local aquifers;
  - to model the impacts from pit dewatering;
  - to assess the impacts on ground water users and the ecosystem functionality;
  - to have input, together with Metago, other specialists and Turquoise Moon, into project alternatives and the management measures going forward.

### Air quality

- **Airshed Planning Professionals.** Following objectives:
  - to qualify the ambient air quality baseline;
  - to quantify all proposed emission sources in an emissions inventory;
  - to determine the relevant meteorological conditions in and adjacent to the project area including wind speeds and direction;
  - to model the spatial dispersion of emissions to air;
  - to assess the potential incremental and cumulative off-site impacts of the emissions including potential effects on cattle and game;
  - to compare these estimated impacts to relevant guideline standards which act as a guide for human health impacts; and
  - to have input, together with Metago, other specialists and the technical project team, into project alternatives and the management measures going forward.

### Noise

- **Acusolv.** Following objectives:
  - to quantify the pre-development ambient noise climate for day and night;
  - to identify noise-sensitive receptors (human and animal);
  - to model operational noise levels during the day and night;
  - to estimate the impact of future project noise levels of sensitive receptors;
  - to compare these estimated impacts to relevant standards;
  - to provide input on general impacts of noise on animals including blast noise and game and cattle breeding;
  - to have input, together with Metago, other specialists and the technical project team, into project alternatives and the management measures going forward.

### Traffic – transport mechanisms

- Transportation of materials to and from site: **road, rail, pipeline, overland conveyor**
- For **materials, other than concentrate:** road and rail
- For **concentrate product:** road, pipeline, conveyor. Selection criteria are:
  - road safety;
  - road condition and maintenance;
  - land use issues;
  - carbon footprint;
  - visual issues, noise issues, dust issues;
  - socio-economic issues; and
  - affordability.

### Traffic

- **Siyazi Limpopo.** Following objectives:
  - to identify the existing road network in the vicinity of the proposed project;
  - to characterise the usage and capacity of the existing road network;
  - to assess the impact on the existing road network (including capacity, safety and road routing) of the infrastructure and traffic associated with the proposed project; and
  - to have input, together with Metago and the technical project team, into project alternatives and traffic management measures going forward.

### Current land uses

- Appropriately qualified specialist or group of specialists. Following objectives:
  - to identify and map land uses on and immediately surrounding the project areas;
  - to identify and assess the potential impacts on these land uses;
  - to provide input into animal behaviour including cattle and game breeding as it relates to exploration and/or mining activities;
  - to understand and assess the potential for phytosanitary-related impacts as a result of the exploration and/or mining activities;
  - to liaise with other appointed specialists, as required, to understand the potential extent and significance of impacts;
  - to have input, together with Metago and the technical project team, into project alternatives and management measures going forward.



### Socio-economic study

- Metago4Good. Following objectives:
  - to characterise the baseline socio-economic environment with respect to the immediate area and broader municipal areas;
  - to identify and assess both positive and negative socio-economic impacts;
  - to have input into maximisation of positive economic benefits of project taking cognisance of potential losses that might accrue to tourism & agricultural industry;
  - to conduct a baseline review of people residing adjacent to the proposed project;
  - to have input into a relocation plan, if required;
  - to have input into the planning around the prevention of an influx of people and associated crime, disease and social disruption;
  - to have input into the issue of the availability of housing, land and basic services together with the relevant local municipalities;
  - to provide clear employment/recruitment, training/skills development and procurement policies;
  - to have input into the issue of impact on land values; and
  - to have input, together with the technical project team into project alternatives and socio-economic management measures going forward.



### WAY FORWARD

Scoping report for review (November 2010)  
Regulatory authority and public review (40 days from distribution)  
Closing date for comments – 24 January 2010  
Specialist EIA investigations (next 3 to 4 months)  
Focused involvement, where required  
Distribute EIA/EMP report (+/- April 2011)  
Feedback meeting/open day (+/- June 2011)  
Distribute record of decisions (2<sup>nd</sup> half 2011)

CLOSE

APPENDIX 3: ADDITIONAL COMMENTS RECEIVED FROM THE KOEDOESRAND LANDOWNERS  
FORUM

Dear Sir

The base for all Scoping and EMPR documents is contained in the MPRDA and NEMA.

*MPRDA 39(3)(a) establish baseline information concerning the affected environment to determine **protection, remedial measures** and environmental **management** objectives;*

*(b) **investigate, assess and evaluate** the impact of his or her proposed prospecting or mining operations on—*

*(i) the **environment**;*

*(ii) the **socio-economic conditions** of any person who might be directly affected by the prospecting or mining operation; and*

*(iii) any **national estate** referred to in section 3(2) of the National Heritage Resources Act, 1999 (Act No. 25 of 1999), with the exception of the national estate contemplated in section 3(2)(i)(vi) and (vii) of that Act;*

To assist with meeting with the above mentioned requirements it would be appreciated if the table below can be completed. The table is in the format where the issue is described, provision is also made in the next columns for the reference (Par and page no) in the Scoping document/EMPR where the issue is addressed as well as a reference to the responsible specialist study.

No	Issue	Specialist	Reference
1	<b>Land Capability</b>		
1.1	What is the quantitative pre mining land capability vs the post mining land capability.		
1.2	How will subsidence be addressed post decommissioning?		
1.3	How will hard setting be addressed post closure?		
1.4	How will land owners and occupiers be remunerated for any losses?		
1.5	How will these losses be calculated?		

1.6	What is the yield of current rehabilitated areas on your mines?		
1.7	What is the yield of current rehabilitated areas on other mines?		
1.8	Give evidence if there will be a statement that land capability will be approximate to pre mining land capability taking all of the above into consideration.		
2	<b>Land use</b>		
2.1	How many ha of high potential soils is still available on the Bushveld?		
2.2	What is the current land use on the proposed mining area?		
2.3	What is the post mining land use envisaged as?		
2.4	Will the post mining land use be sustainable?		
2.5	What is the quantified difference, over 100 years, of the post and pre mining land uses?		
3	<b>Pollution costs during mining operations</b>		
3.1	<b>Dust (Plants)</b>		
3.1.1	What is the impact of dust on the plants surrounding the area?		
3.1.2	By how much will photosynthesis be reduced?		
3.1.3	How large an area will be impacted upon?		
3.1.4	What is the economic cost of the dust damage?		
3.1.5	How will the economic cost be calculated and by whom?		
3.1.6	How will affected parties be compensated?		
3.1.7	When will affected parties be compensated?		
3.1.8	What is the impact on fauna and flora and biodiversity?		

3.1.9	How will the impact be mitigated?		
3.2	<b>Dust (Humans):</b>		
3.2.1	How will dust at households be mitigated?		
3.2.2	What is the health risk to humans of the dust?		
3.2.3	<b>What level of PM 10 dust is expected?</b>		
3.2.4	<b>What is the PM10 dust currently?</b>		
3.2.5	<b>What will be the cumulative PM10 count?</b>		
3.2.6	How will the dust from blasting be mitigated?		
3.2.7	Predict the dust from the access and haul roads on all structures and areas that will be impacted upon – including all sensitive receptors adjacent all access roads		
3.2.8	How will all of the above be mitigated?		
3.2.9	<b>What suppression methods are envisaged?</b>		
3.2.10	<b>How many l/sqm/hour is needed for 70% dust suppression?</b>		
3.2.11	<b>How many l/sqm/hour is needed for 90% dust suppression?</b>		
3.2.12	<b>What are the square meters needed for all dust producing areas that will need to be suppressed during each year of the operations?</b>		
3.2.13	<b>How much water is needed for dust suppression in each year of the LOM?</b>		
3.2.14	Where will the water for dust suppression be sourced?		
3.2.15	What water quality would be used for dust suppression?		
3.2.15	What other dust suppressant will be used?		
3.2.16	How often will it be used on different surfaces?		

3.2.17	What is the seasonal difference in dust pollution and dust control?		
3.2.18	What would be the long term impact of poor water quality used in dust suppression to rehabilitation/human health and the environment?		
3.3	<b>Noise/Blasting</b>		
3.3.1	How much noise will be at households and areas adjacent to the mine?		
3.3.2	What is the current noise during the following conditions: 1. Summer – night and day 2. Winter – night and day 3. Overcast conditions 4. Misty conditions		
3.3.3	What would the increased noise levels (dB) be to the households adjacent to the mine?		
3.3.4	What noise will be generated from the trucks and other vehicles on the access roads? 1. What are the sensitive receptors? 2. How will this impact be mitigated? 3. What will the predicted noise (including cumulative) noise be after mitigation?		
3.3.5	Will the reverse hooters be included in the predictions of where and how much noise will be generated?		
3.3.6	Which blast monitoring standards will be used?		
334.7	Are they applicable to grave sites, low cost, mud, and rock and mud houses as is found in the area?		
3.3.8	Are they applicable to water supply boreholes as found in the area?		



3.3.9	Please make up a detailed baseline of all structures within 10 km of the area and give a detailed risk analysis of all structures in relation to potential blasting damage ( detailed baseline of all structures is needed by a qualified structural engineer)		
3.3.10	How will affected structures be replaced if damaged?		
3.3.11	What will be the potential cost of replacement if structures are damaged ( on an individual basis)		
3.3.12	What mitigation measures are proposed for the unmitigatable impacts of noise?		
4	<b>Surface and groundwater</b>		
4.1	<b>How much water will be impacted upon by the operations during each year of the process?</b>		
4.2	<b>How will the impact be mitigated?</b>		

4.3 Please give an analysis of the rainwater water balance pre and post mining

	<i>Pre mining</i>	<i>Post mining</i>
Recharge	4%	15%
Runoff	6%	20%
Evapo transpiration	30%	15%
Sub surface ( Superficial aquifer)	60%	50%

4.4	Do you agree with the above – if not how do you differ?		
4.5	Pollution control dams		
4.5.1	Give the design criteria for the pollution controls dams?		
4.5.2	What is the operational philosophy for the		

	pollution control dams?		
4.5.3	<b>Where will the pollution control dams for be situated?</b>		
4.5.4	<b>Will they be lined?</b>		
4.5.5	What liner would be used?		
4.5.6	What would be the impact of high acidity and salts on the liner's performance?		
4.5.7	<b>How much water will be evaporated?</b>		
4.5.8	Is there provision for decant from the pollution control dams		
4.5.9	Will the dams be filled via a gravity or pumped system?		
4.6	<b>Pit decant</b>		
4.6.1	<b>Where will the decant points be?</b>		
4.6.2	<b>When will decant start?</b>		
4.6.3	<b>What will be the quality of the decant water?</b>		
4.6.4	<b>What impact will there be from other mines?</b>		
4.6.5	How much decant water is expected over the LOM?		
4.6.6	How much decant water is expected after closure of the Mine ? ( Give the calculations please)		
4.6.6	How will the water quality be mitigated during and after the Mine operation?		
4.6.7	What is the financial provision for the managing of the water impact during the duration of the impact?		
4.6.8	How was the provision calculated and by whom?		
4.6.9	How will a loss of water in boreholes by neighbours be handled?		

4.6.10	How will the water quality in the pit be mitigated?		
4.7	<b>Catchment</b>		
4.7.1	What is the current status of boreholes adjacent to the mine in terms of delivery and water quality?		
4.7.2	What is the current state of the pollution of the river system up and downstream of mine?		
4.7.3	What are primary uses of the water of this sub catchment as well as the catchment lower down?		
4.7.4	What impact will any pollution have on the water users lower down?		
4.7.5	What is the current status of the catchment water quality and quantity requirement vs water available ?(Water balance)		
4.8	<b>Dewatering cone</b>		
4.8.1	The extent of the dewatering cone has to be shown as well as the figures that were measured locally and used in the calculations.		
4.8.2	How will the impact be mitigated?		
5	<b>Post decommissioning costs</b>		
5.1	What will be the cost of water treatment post decommissioning?		
5.2	For what period will the water be polluted after closure?		
5.3	What rehabilitation cost is envisaged to the surface rehabilitation after mine closure?		
5.4	What rehabilitation and maintenance cost is envisaged to the surface water control measures after mine closure?		
5.5	What annual operational cost post closure is envisaged?		

5.6	Please supply a financial plan to deal with this cost for as long as the impact will continue		
6	<b>Discard and waste control</b>		
6.1	What is the Acid Generation Potential of the mine waste being placed in the open pit?		
6.2	Where would the discard be placed?		
6.3	What is the Acid Generation Potential of the discard?		
6.4	How would the fines be discarded?		
6.5	Would the base of the discard/fines dump be lined?		
6.6	What is the predicted water quality of the water coming of as seepage from the discard dump?		
6.7	How is this water quality mitigated and to what standard?		
7	<b>Weather data</b>		
7.1	What weather data will be used?		
7.2	Is this data applicable to local conditions?		
7.3	If not – how does it differ?		
8	<b>Cumulative impacts</b>		
8.1	Other mining related activities		
8.2	Impacts cumulatively must be assessed as to:		
8.2.1	the impact on sense of place		
8.2.2	dust		
8.2.3	noise		
8.2.4	surface and ground water		
8.2.5	agricultural loss of land and food security		
8.2.6	Biodiversity		
8.2.7	Safety and Security – how are the mine going to protect the farmers in regards to farm attacks		
8.2.8	We demand an independent study on current employment and how they are going to be		

	affected and the amount of employees the mine will employ.		
9	<b>Cultural heritage</b>		
9.1	How will the graves be handled? (Inclusive of blasting damage)		
9.2	What listed buildings are in the area?		
10	<b>Alternatives</b>		
10.1	Land		
10.1.1	What are the alternative land uses and combination of land uses?		
10.1.2	What is the post mining land use alternative?		
10.1.3	What is the difference in value over a 100 year period between mining and the combination of alternative lands uses?		
10.2	<b>Project</b>		
10.2.1	What other sources ore is available in SA where it can be mined?		
1	1.		
11	<b>Access Road</b>		
11.1	Is the proposed new road on public or servitude roads or on private roads?		
11.2	All alternatives must be assessed with affected parties and detailed plans together with impacts and mitigations must be supplied.		
11.3	How many trucks per hour will be on the roads:		
11.3.1	From the current operations		
11.3.2	New operations		
11.3.3	Other mines and applications		
12	<b>No go Option</b>		
	A detailed study showing all advantages and disadvantages – including externalized costs, has to be drawn up including, but not limited		

	to the following:.		
12.1	All costs must be taken into account for the full life cycle of the impact. <b>Life cycle costing:</b> Life-cycle costing refers to the process whereby all costs associated with the system (e.g. capital cost, operational cost, maintenance costs, closure and rehabilitation cost, impact mitigation costs, etc.) as applied to the defined life cycle are considered		
12.3	<b>The water balance and quality requirements of all downstream users.</b>		
12.4	The long term impact on the wetlands of the mining operations		
12.5	<b>The need for water treatment compared to evaporation and the costing of the treatment, including operational and capital costs (refurbishments) over the life cycle of the impact.</b>		
12.6	<b>The evidence available with regards to the effectiveness of rehabilitated mining areas on the post mining land capability.</b>		
12.7	<b>The impact of the blasting on housing in the area that will be affected – taking into consideration the size of the area impacted upon by this mines operations in the area.</b>		
12.8	The social impact on the current residents over displacement and negative caused by the mine in the adjacent areas		

**.13 Social**

13.1	How many occupiers are there currently on the affected area?		
13.2	To where will they be moved?		
13.2	Are the floor plans of each household's new house available?		
13.3	What economic activity will they be bale to take part in at the new housing area?		
13.4	What is the level of education of each household?		
13.5	How will farms be compensated for loss of income?		
13.6	Most of the farms are family driven farms, how is the mine going to compensate for the loss of income for all the family members employed on the farm?		
13.7	We need a specialist study on how the impact of crime is going to affect us.		
13.8	Where will the employees of the mine get recourses to basic living: Wood for fires, water, sanitation, transportation		
13.9	What will the impact be on our Flora if they take wood out of our environment?		
14.	Electricity		
14.1	Current infrastructure is struggling to cope with the demand of electricity.1 How will the mine address this?		