

## SANDMAN QUARRIES cc

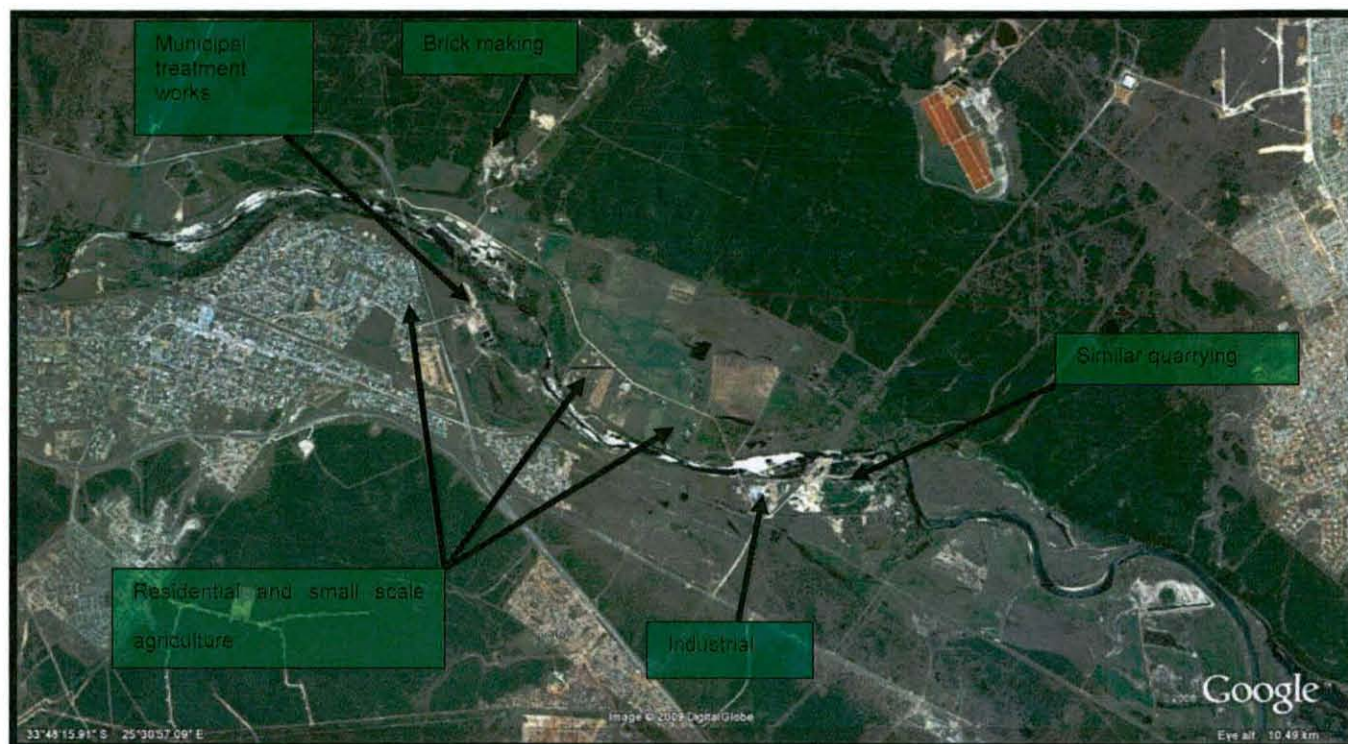
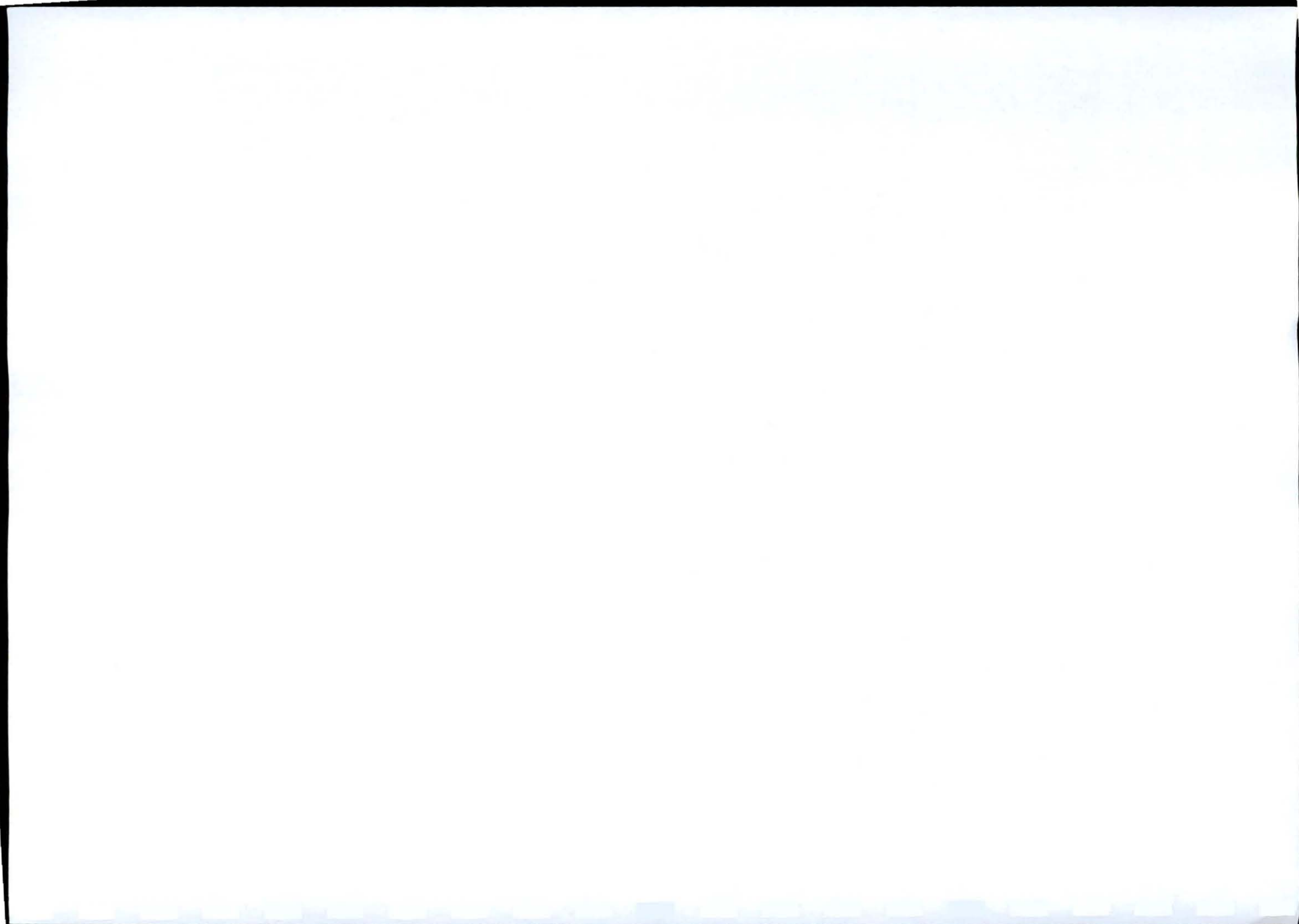


Figure 4: Neighbouring land uses. The neighbouring land uses include quarrying for similar products, industry, residential areas, brick making and municipal water treatment. The predominant neighbouring use is agriculture and agricultural processing.

### 2.7. Socio-Economic Status of the Area

The data from Census 2001 shows that the population for the ward in which the mining is proposed (ward 60 Nelson Mandela Bay Municipality) to be 12480 people. 37% of the population has some secondary education with 38% having completed grade 12. 14% of the population has a higher education. 7% of households reported no income with 22% reporting an income of less than R19 200 per annum (about R29 000 in 2008 value). 46% of the households had an income of greater than R76000 (about R120 000 in 2008 value).





## SANDMAN QUARRIES cc

### 3. ENGAGEMENT OF INTERESTED AND AFFECTED PARTIES

In accordance with MPRDA Regulation 49(1), public participation was undertaken by the following means:

1. Notification of the mining venture by registered mail
2. Personal contact with direct neighbours and land owners
3. Placement of an advert in the local media (Annexure 1 : PROOF OF PUBLIC PARTICIPATION)

Table 3: The following persons have been contacted as interested and affected parties.

CONTACT LIST FOR PUBLIC PARTICIPATION FOR SANDMAN QUARRIES				
Mr. A. Greef	P.O. Box	61	Despatch	6219
Potgieter Properties Trust	P.O. Box	313	Uitenhage	6230
Lafarge Mining	P.O. Box	7123	Port Elizabeth	6055
Karoo-Osche	P.O. Box	287	Despatch	6219
Berseba Sand and Klip C/O Carl Johnson Attorneys	P.O. Box	689	Sedgefield	6573
New Era International	P.O. Box	427	Port Elizabeth	6000
Nelson Mandela Bay Municipality	P.O. Box	834	Port Elizabeth	6000
Mr. G.H.J. Olivier	P.O. Box	3090	Uitenhage	6230
Shareen Investments	P.O. Box	99	Swartkops	6210
Mr. L. Stander	P.O. Box	29	Despatch	6001
Mr. B. Turner	C/O	25 Amper Bo Street	Despatch	6219
Waagensdrift Property Trust	P.O. Box	313	Uitenhage	6230
Mr. D.J. Hattingh	Portion	116 of 67 of 567	Zwartkops River Waagens Drift	
Mr. F.E. Alberts	Portion	67 of 567	Zwartkops River Waagens Drift	

All interested & affected parties have been given 30 days to make submissions regarding objections or comments on the proposed mining right. Only the following persons responded:

1. Mr. R. Meintjes of Nelson Mandela Bay Municipality
2. Mr. L. Stander (neighbour)
3. Mr. F.E. Alberts (neighbour)
4. Mr. D.J. Hattingh (neighbour)





## **SANDMAN QUARRIES cc**

Responses to these comments are included in Annexures 2 to 5. The remainder of this document details the outcome of these comments.

### **4. ENGAGING THE NELSON MANDELA BAY MUNICIPALITY**

See Annexure 2 : Response from N.M.B.M. for the concerns raised by Mr Meintjes from the Nelson Mandela Bay Municipality. The applicant's consultant, Algoa Consulting Mining Engineers, have responded on the 16<sup>th</sup> of April 2009 in writing to the N.M.B.M. and a copy thereof is shown in Annexure 6 : Reply to N.M.B.M. A follow-up meeting between Mr Rudi Gerber from ACME and Mr Meintjes from the NMBM was held on the 6<sup>th</sup> of May 2009 to ensure that all the NMBM concerns had been addressed.

#### **4.1. Plans & Maps**

Two copies of size A3 plans contemplated in Regulation 2(2) of the MPRDA were submitted to the office of Mr Meintjes on the 16<sup>th</sup> of April 2009. These plans indicate the extent of the mining right area in relation to the surrounding areas.

#### **4.2. Zoning of Title Deed(-s)**

Under the old Minerals Act 50 of 1991 the holder of these old order mining rights could attach it to the title deeds of the properties concerned and the property then re-zoned to "Industrial-3 (Mining)". This old act together with mineral rights had been repealed. The State is currently the custodian of all minerals in South Africa and governed by the new Minerals & Petroleum Resources Development Act (MPRDA), Act 28 of 2002. No longer would the holder of a mining authorisation be able to attach the mineral rights to a title deed and re-zone the property, but instead the mining authorisation and mineral rights are registered at the Mining Titles Registration Office in Pretoria and governed by the Mining Titles Registration Act





## **SANDMAN QUARRIES cc**

(MTRA), Act 24 of 2003. Seeing that mining permits and mining rights are awarded for limited periods only (and not *ad infinitum*), the re-zoning of title deeds over mining areas depend on the objectives of the Environmental Management Plan (EMP). Should the EMP indicate that the end-use of the land after rehabilitation and mine closure be different to that of its current use, then re-zoning would be required. In the case of Sandman Quarries, the land owner wishes to continue with its cattle farming and hence no re-zoning is required.

The Land Use Planning Ordinance 15 of 1985 (LUPO) Western Cape governs the land use for the Nelson Mandela Bay Municipal area. As the MPRDA is a national Act, it supersedes the LUPO, which is a local government Ordinance.

### **4.3. Stakeholders**

The MPRDA makes provision for other state departments (such as the ones mentioned in Mr Meintjes' letter) and Interested & Affected Parties to participate in the decision making process of awarding a mining authorisation. The mining authorisation process is strictly regulated by the MPRDA and the stakeholders will be involved in due course by the DME.

### **4.4. Record Of Decision**

The record of decision for mining authorisations resides with the DME and not any other state department. However, the DME does not take this decision unilaterally, but involves the other state departments in concluding the Record Of Decision.

## **5. ENGAGING THE NEIGHBOUR, MR L STANDER**

See Annexure 3 : Response from Neighbour Mr. L Stander for a copy of his concerns raised as an affected neighbour. The applicant's consultant, Algoa Consulting Mining Engineers, have responded with a meeting held at Mr Stander's home on the



## **SANDMAN QUARRIES cc**

21<sup>st</sup> of April 2009. The response to his concerns are attached in Annexure 7 : Reply to Neighbour, Mr. L Stander.

### **6. ENGAGING THE NEIGHBOUR , MR F ALBERTS**

See Annexure 4 : Response from Neighbour Mr. F Alberts for a copy of his letter of concerns raised as an affected neighbour. The applicant's consultant, Algoa Consulting Mining Engineers, have responded with a meeting held at Sandman Quarries' Offices at the request of Mr Hattingh on the 21<sup>st</sup> of April 2009. The response to his concerns are attached in Annexure 6 : Reply to Neighbour, Mr. F Alberts.

### **7. ENGAGING THE NEIGHBOUR , MR D HATTINGH**

See Annexure 5 : Response from Neighbour Mr. D Hattingh for a copy of his concerns raised as an affected neighbour. The applicant's consultant, Algoa Consulting Mining Engineers, have responded with a meeting held at Sandman Quarries' Offices at the request of Mr Hattingh on the 21<sup>st</sup> of April 2009. The response to his concerns are attached in Annexure 6 : Reply to Neighbour, Mr. D Hattingh .Annexure 7 : Reply to Neighbour, Mr. L Stander.

### **8. CONCLUSIONS**

All Interested & Affected Parties that had commented on the new mining venture had been engaged in accordance with the MPRDA and its Regulations. All of their concerns had been evaluated and the agreed mitigating measures to be taken had been incorporated in the applicant's EIA and EMP.





## SANDMAN QUARRIES cc

### 10. ANNEXURE 1 : PROOF OF PUBLIC PARTICIPATION

#### CERTIFICATE OF PUBLICATION

Newspaper House  
19 Baakens Street  
Port Elizabeth 6001

Tel: 041 - 504 7911  
Fax: 041 - 586 2927

**johnnic**  
communications  
media division

Tel: 041 - 504 7911  
Fax: 041 - 586 3315  
041 - 582 1794

Telegrams "Newshouse"

We certify that the attached advertisement appeared in the issue of  
The Herald/~~Weekend Post~~ dated 21 March 2009

#### NOTICE OF AN APPLICATION FOR A MINING RIGHT IN THE DESPATCH/ UITENHAGE AREA

Notice is given that an application for a mining right has been lodged with the Department of Minerals and Energy in terms of the Mineral and Petroleum Resources Development Act (No. 28 of 2002).

To mine alluvial quartzitic sandstone gravel and sand resources on portions 7, 8, 9, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 59, 65, 70, 71, 74, 79, 80, 82, 95, 111 and 114 of the Farm Zwartkops River Waagans Delt 567, Division of Uitenhage Eastern Cape.

The Applicant is: Sandman Quarries CC  
Contact Details:  
PO Box 513, Uitenhage, 6230

Phone: (041) 533-2792  
Fax: (041) 533-4899  
Email: Sandmanquarries@iweb.co.za

The Consultant is Rudi Gerber of Algoa Consulting Mining Engineers  
Consultant Contact Details: PO Box 16501, Emerald Hill, 6011

Phone: (041) 374-0842  
Fax: 086-857-7700  
Cell: 082-653-2568  
Email: rudi@algoacme.co.za

THE HERALD  
WEEKEND POST

*Benjamin*  
FOR CLASSIFIED MANAGER

K104 - johnnic communications eastern cape (pty) ltd





**SANDMAN QUARRIES cc**

**11. ANNEXURE 2 : RESPONSE FROM N.M.B.M.**





nelson mandela bay  
MUNICIPALITY  
PORT ELIZABETH Uitenhage DESPATCH

H O U S I N G   &   L A N D

tel: +27(41) 506 3111, fax: +27(41) 506 3430  
PO Box 9, Port Elizabeth 6000  
Republic of South Africa

Your Ref:

Our Ref: CF62/00567P82

Date: 12 March 2009

DEALS WITH THIS MATTER: MR R J MEINTJES  
LAND PLANNING AND MANAGEMENT  
SUB-DIRECTORATE

Tel: 994-1119; Fax: 994-1109

S Wiggill  
Sandman Quarries  
P.O. Box 313  
Uitenhage  
6230

Sir/ Madam,

**APPLICATION FOR A MINING RIGHT ON PORTIONS OF THE FARM ZWARTKOPS RIVER  
WAAGENS DRIFT NO. 567:**

Your letter dated 24 March 2009 refers.

Your letter does not indicate the subject Portions of the farm Zwartkops River Waagens Drift No. 567 on which the proposed application for a mining right has been lodged. Kindly indicate the portions on which the proposed mining right will be situated and also provide this office with a locality map of the subject portions.

These portions of this farm Zwartkops River Waagens Drift No. 567 are zoned for Agricultural 1 purposes in terms of the Section 8 Zoning Scheme Regulations of the Land Use Planning Ordinance 15 of 1985.

If any portion of this farm is to be used for mining activities it must be rezoned from Agricultural 1 to Industrial 3 (Mining) purposes. An application for the rezoning of the subject portions must be submitted for consideration prior to the use thereof for mining purposes.

It must also be noted that approval (ROD) from the Department of Economic Development and Environmental Affairs (EIA) must be obtained for the proposed use.

If the Zwartkops River is also affected, approval from the Department of Water Affairs and Forestry must also be obtained.

On receipt of the aforementioned, the matter will receive consideration.

Yours faithfully

EXECUTIVE DIRECTOR  
HOUSING AND LAND

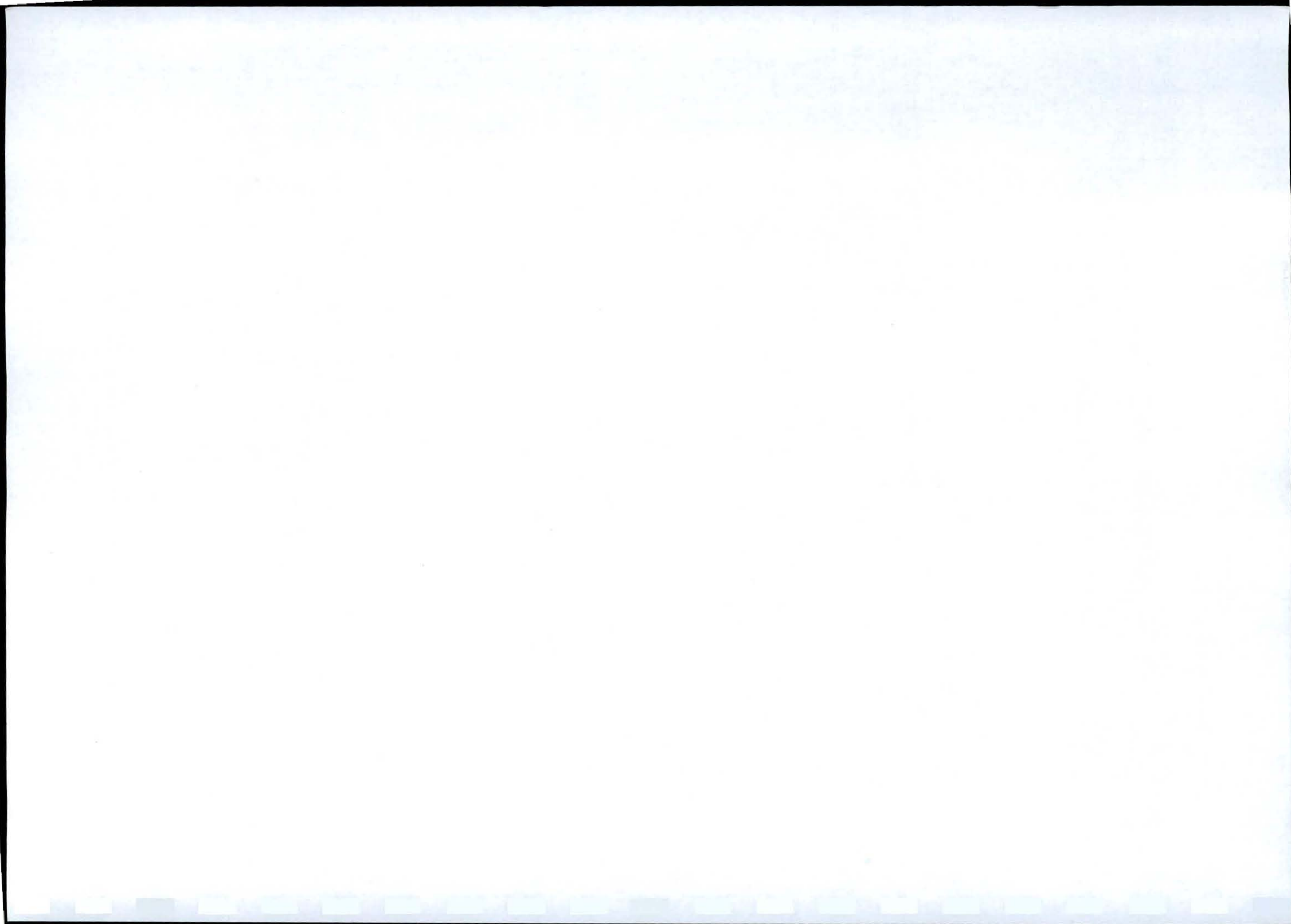
Cc. Properties and Planning Administration





**SANDMAN QUARRIES cc**

**12. ANNEXURE 3 : RESPONSE FROM NEIGHBOUR MR. L STANDER**



L. Stander  
Posbus 29  
DESPATCH  
6219

16 April 2009

Sandman Quarries CC  
Posbus 313  
UITENHAGE  
6230

Meneer

**AANSOEK om MYNREGTE, U VERWYSINGSNR 2/2009 – SKRYWE 24 MAART 2009**

Soos in vorige skrywes aan u en Omgewingsake, het ondergetekende reeds gemeld dat:

1. L. Stander is die eienaar van eiendom nr 66, Elandstraat, Despatch.
2. Woonhuis met swembad op eiendom.
3. Hoender- en varkboerdery en lande onder weiding.
4. Hoenders baie sensitief vir geraas en stof.
5. Onseker of mynbedrywighede die woonhuis, hoenderboerdery en ander bedrywighede kan beïnvloed?
6. Waarde van eiendom kan beïnvloed?
7. Hoe ver mynbedrywighede van eiendom sal plaasvind?
8. Hoër verkeer op pad?

Ek sal graag meer wil weet aangaande bogenoemde.

Die uwe



L. STANDER





2102/54

Approved

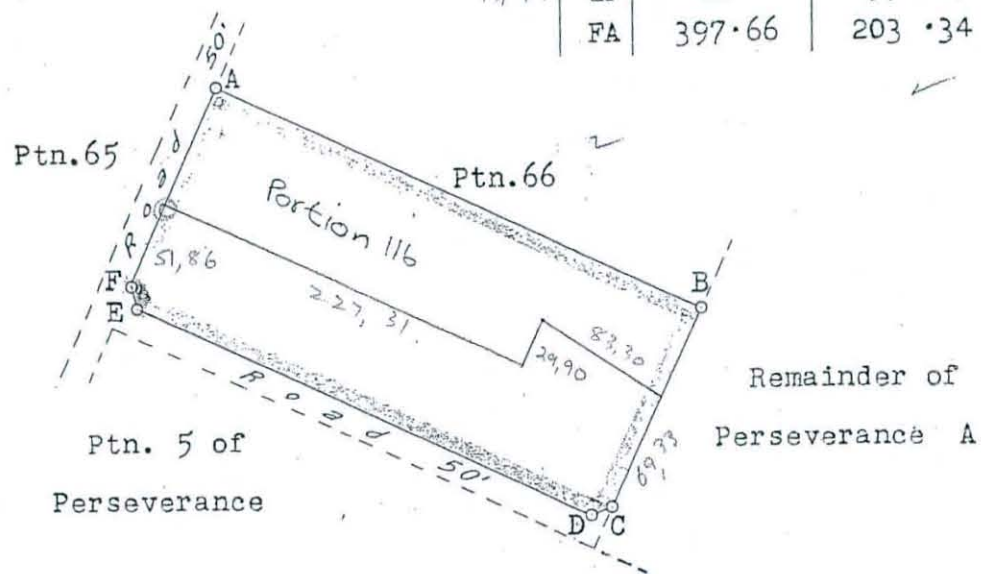
Surveyor-General.

20 APR 1954

Deducted from Plan 1003 L.D.

Beacons.  
 T.N. A B C D E F are iron standards in concrete.

SIDES Cape Feet		ANGLES OF DIRECTION
AB	989.34	294 .41 .10
BC	397.58	24 .41 .10
CD	42.43	69 .41 .10
DE	920.99	114 .41 .10
EF	42.84	159 .07 .40
FA	397.66	203 .34 .00



Portion 67 (.....)

Scale 1:4000 (a portion of Portion 10) of the farm

Zwartkops River Wagons Drift No. 567

UITENHAGE

The figure A B C D E F represents 4.8650 morgen  
 (a portion of Portion 10)  
 of land being PORTION 67 of the farm PERSEVERANCE A  
 situate in the Division of UITENHAGE  
 Province of Cape of Good Hope.

Surveyed in May-Sept. 1952 by me

E.D. Tidball

Land Surveyor.

This diagram is annexed to DT. 1456/8184 No. Ad. in favour of	The orig. diag. is No. 4972/53 annexed to	S.G. File S 13131
		S.R. No. E. 2207/52
		Compilation BO-8A
		G.P. 1003LD
		417 G 1-45

Registrar of Deeds



**SANDMAN QUARRIES cc**

**13. ANNEXURE 4 : RESPONSE FROM NEIGHBOUR MR. F ALBERTS**





15 MARCH 2009

YOU'RE REF: 02/2009/Olivier

**SANDMAN QUARRIES cc**

ELAND STREET

PERSEVERANCE, DESPATCH

**ATTENTION:** MS S WIGGILL

**RE: MINNING RIGHTS**

THIS IS TO NOTIFY YOU THAT I AM **NOT** IN FAVOUR OF ANY KIND OF MINNING ACTIVITIES THAT IS PROPOSED.

YOURS SINCERELY

MR FE ALBERTS

CELL: 0834547670

PORTION 67 OF 567

ZWARTKOPS RIVER WAAGENS DRIFT

*Opposed to the  
Noise & Dust.*



*Handwritten notes and signatures:*  
02/2009/Olivier  
mining  
S. Wiggill  
[Signature]



**SANDMAN QUARRIES cc**

**14. ANNEXURE 5 : RESPONSE FROM NEIGHBOUR MR. D HATTINGH**





15 MARCH 2009

YOU'RE REF: 02/2009/Olivier

**SANDMAN QUARRIES cc**

ELAND STREET

PERSEVERANCE, DESPATCH

**ATTENTION:** MS S WIGGILL

**RE: MINNING RIGHTS**

THIS IS TO NOTIFY YOU THAT I AM **NOT** IN FAVOUR OF ANY KIND OF MINNING ACTIVITIES THAT IS PROPOSED.

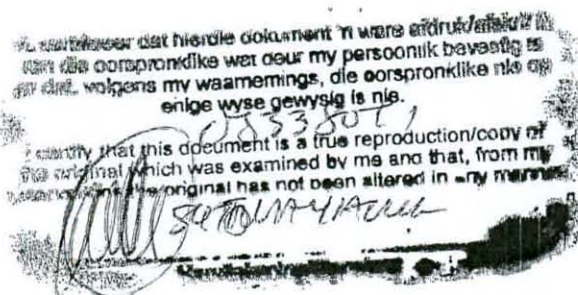
YOURS SINCERELY

MR DJ HATTINGH

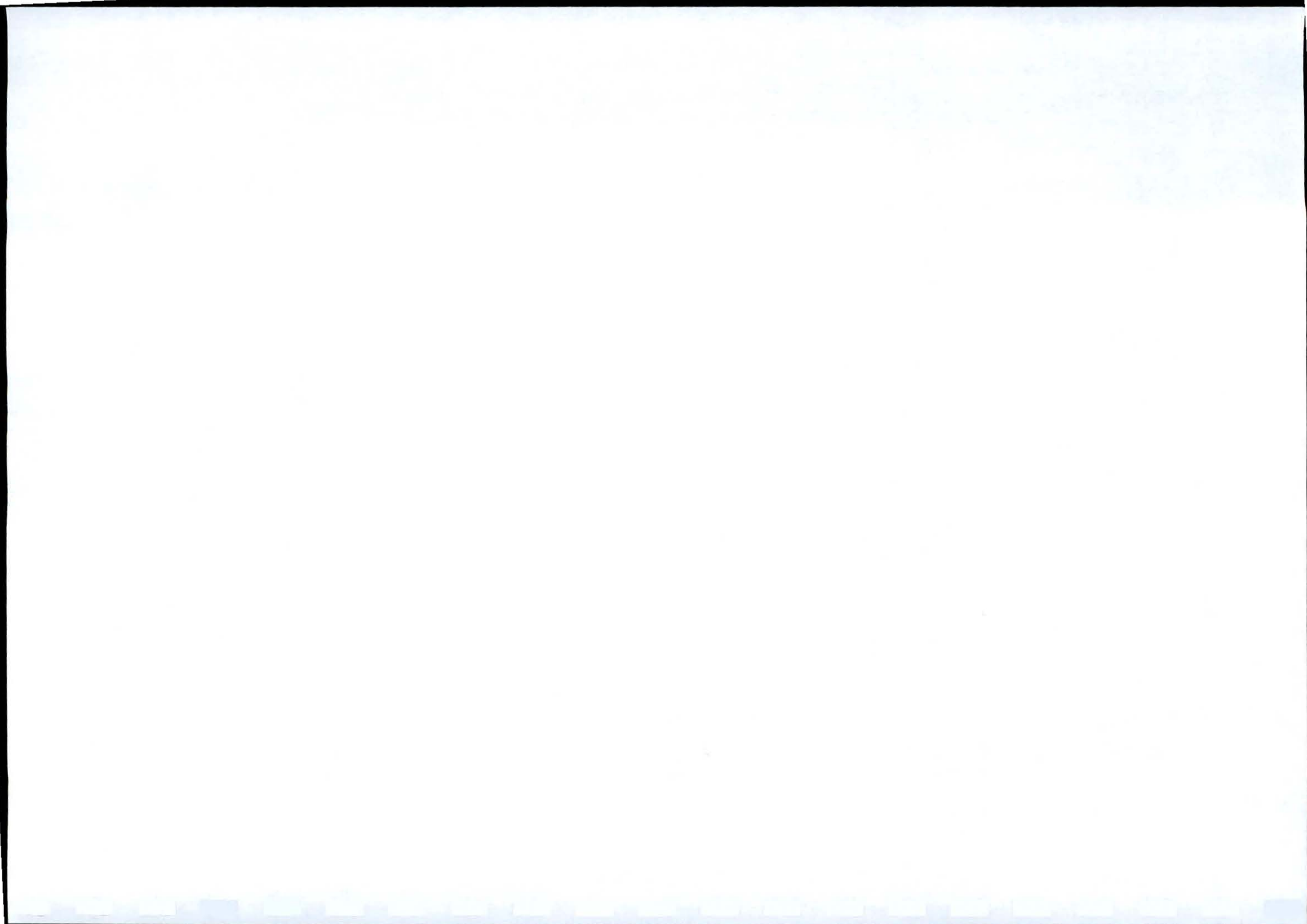
CELL: 0835779693

PORTION 116 OF 67 of 567

ZWARTKOPS RIVER WAAGENS DRIFT



*Opposed to  
the Noise &  
Dust.*



## SANDMAN QUARRIES cc

### 15. ANNEXURE 6 : REPLY TO N.M.B.M.

#### ALGOA CONSULTING MINING ENGINEERS cc



130 Cape Road, Mill Park, P.E., 6001  
PO Box 16501, Emerald Hill, 6011  
Republic of South Africa  
Telephone: National (041) 974 8842  
International +27 41 974 8842  
Telefax: National (041) 957 7703  
International +27 41 957 7703  
e-mail: rudi@algocme.co.za

Our Ref. nr. : 20090416

16 April 2009

Your Ref. nr: CF62/00567P82

Mr R. Meintjes  
Land Planning & Management Sub-Directorate  
Nelson Mandela Bay Municipality  
P.O. Box 9, Port Elizabeth, 6000

#### MINING RIGHT APPLICATION AT WAAGENSDRIFT, 567

Dear Sir

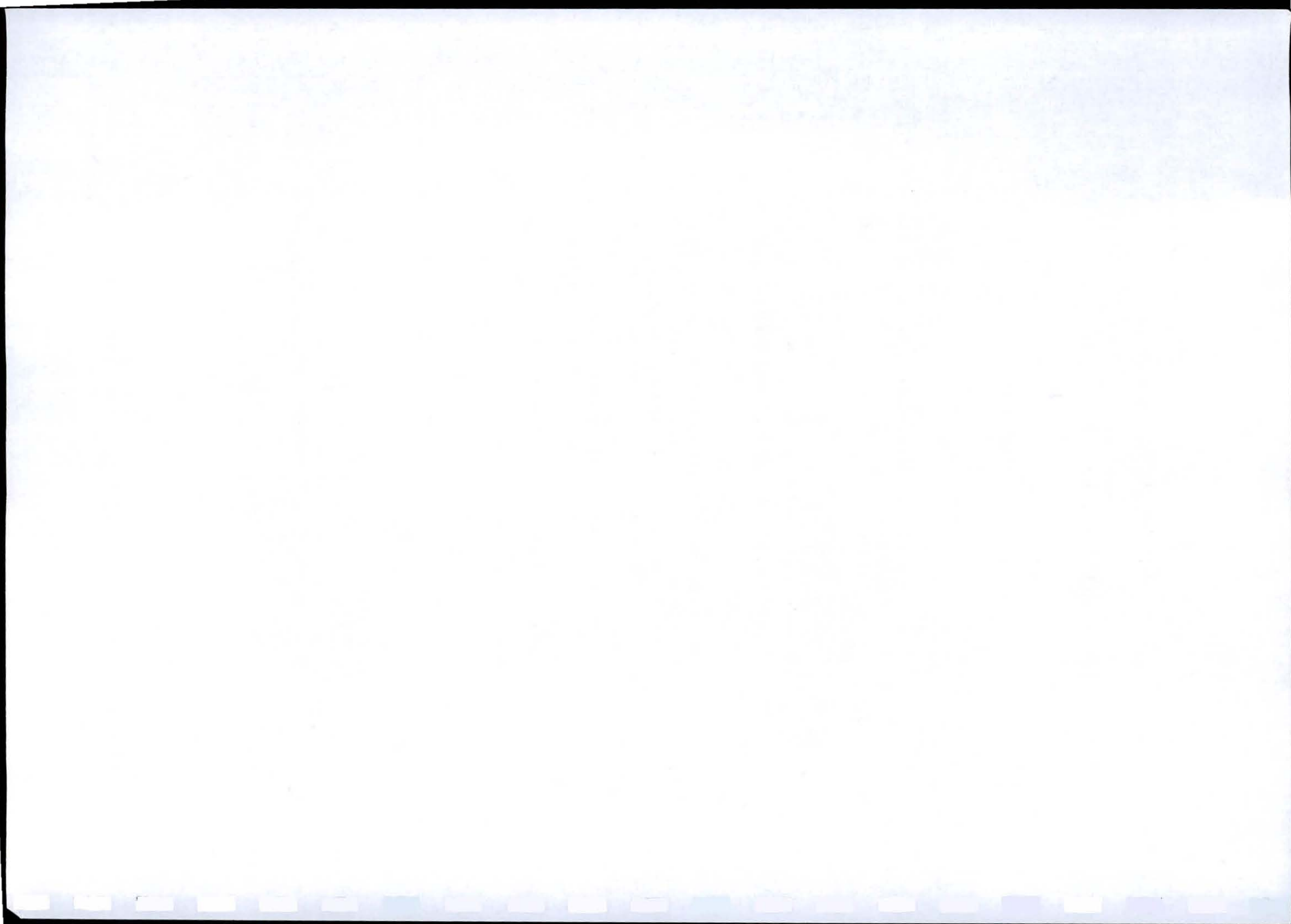
Your letter to the applicant, Sandman Quarries, dated 12 March 2009 refers. Please find attached two plans contemplated in Regulation 2(2) of the Minerals & Petroleum Resources Development Act, Act 28 of 2002, (MPRDA). The plan indicates the area and extent thereof over which the mining right has been applied for.

The application process for a mining right is regulated according to the MPRDA and various stakeholders, such as the role players mentioned in your letter, participate in the decision making process. We hope that we have addressed your concerns, but should you have any further queries, please feel free to contact me.

Yours sincerely

Rudi Gerber  
B.Eng.(Min)  
Manager  
0826532568







130 Cape Road, Mill Park, P.E., 6001  
PO Box 16501, Emerald Hill, 6011  
Republic of South Africa  
Telephone: National (041) 374 0842  
International +27 41 374 0842  
Telefax: National (086) 657 7703  
International +27 86 657 7703  
e-mail : rudi@algoacme.co.za

Our Ref. nr. : 20090507

07 May 2009

Your Ref. nr :CF62/00567P82

Mr R. Meintjes  
Land Planning & Management Sub-Directorate  
Nelson Mandela Bay Municipality  
P.O. Box 9, Port Elizabeth, 6000

### **MINING RIGHT APPLICATION AT WAAGENSDRIFT , 567**

Dear Sir

Your letter dated 20 April 2009 and our meeting on 06 April 2009 refer. After conferring with the Department of Minerals & Energy (DME), it was decided that the applicants of mining rights may not use internal communication documents as part of requirements for other Acts & Ordinances. The application process for a mining right is regulated according to the Minerals & Petroleum Resources Development Act 28 of 2002 (MPRDA) and various stakeholders, such as the role players mentioned in your letter, participate in the decision making process.

The applicant for the mining right, Sandman Quarries, undertakes to lodge an application at your office for "Temporary Departure" of land use in accordance with the Land Use Planning Ordinance 15 of 1985 (LUPO) over the affected areas at the time when the Environmental Impact Assessment (EIA) and Environmental Management Programme (EMP) are lodged at the DME. These documents are submitted seven-fold to be distributed to all the relevant role players, such as the Department of Economic Development and Environmental Affairs (DEAT), that would give their Record of Decision (ROD) on the matter within 60 days thereafter. Such an ROD would therefore meet your requirements in order to comply not only with the MPRDA, but also the LUPO.

The portions of land that are affected by this mining right application are :



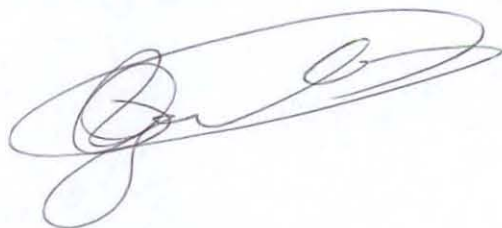


## List of farms which form part of proposed mining right area

No.	Portion	Farm	Title deed no.	Owner	LPI code	District	Local Authority
1	23	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700023	Uitenhage	Despatch
2	24	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700024	Uitenhage	Despatch
3	25	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700025	Uitenhage	Despatch
4	26	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700026	Uitenhage	Despatch
5	27	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700027	Uitenhage	Despatch
6	28	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700028	Uitenhage	Despatch
7	29	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700029	Uitenhage	DIAS DC
8	30	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700030	Uitenhage	DIAS DC
9	31	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700031	Uitenhage	DIAS DC
10	32	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700032	Uitenhage	DIAS DC
11	33	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700033	Uitenhage	DIAS DC
12	34	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700034	Uitenhage	DIAS DC
13	35	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700035	Uitenhage	Despatch
14	36	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700036	Uitenhage	Despatch
15	37	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700037	Uitenhage	Despatch
16	38	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700038	Uitenhage	Despatch
17	39	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700039	Uitenhage	Despatch
18	40	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700040	Uitenhage	Despatch
19	7	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700007	Uitenhage	DIAS DC
20	8	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700008	Uitenhage	Despatch
21	9	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700009	Uitenhage	DIAS DC
22	79	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700079	Uitenhage	DIAS DC
23	80	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700080	Uitenhage	DIAS DC
24	114	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700114	Uitenhage	Despatch
25	111	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700111	Uitenhage	Despatch
26	96	567	T80192/2007	POTGIETER PROPERTY TRUST	C07600000000056700096	Uitenhage	Despatch
27	59	567	T80194/2007	POTGIETER PROPERTY TRUST	C07600000000056700059	Uitenhage	Despatch
28	68	567	T80192/2007	POTGIETER PROPERTY TRUST	C07600000000056700068	Uitenhage	Despatch
29	71	567	T80193/2007	POTGIETER PROPERTY TRUST	C07600000000056700071	Uitenhage	Despatch
30	70	567	T34894/1974	SPADE REEN SENDING INTERNASIONAAL	C07600000000056700070	Uitenhage	DIAS DC
31	74	567	T29956/1999	NEW ERA INTERNATIONAL TRUST	C07600000000056700074	Uitenhage	Despatch
32	82	567	T7821/1952	MUN NELSON MANDELA BAY METROPOLITAN	C07600000000056700082	Uitenhage	Despatch

Note that although all of the above portions of land are being included into the mining right, the mineral extraction would only take place on some of the areas. We hope that we have addressed your concerns, but should you have any further queries, please feel free to contact me.

Yours sincerely



**Rudi Gerber**  
**B.Eng.(Min)**  
**Manager**





**SANDMAN QUARRIES cc**

**16. ANNEXURE 7 : REPLY TO NEIGHBOUR, MR. L STANDER.**



## ALGOA CONSULTING MINING ENGINEERS cc



130 Cape Road, Mill Park, P.E., 6001  
PO Box 16501, Emerald Hill, 6011  
Republic of South Africa  
Telephone: National (041) 374 0842  
International +27 41 374 0842  
Telefax: National (086) 657 7703  
International +27 86 657 7703  
e-mail : rudi@algoacme.co.za

Our Ref. nr. : 20090421

21 April 2009

Your Ref. nr : 16 April 2009

Mr L. Stander  
66 Eland Street ; Despatch  
P.O. Box 29 ; Despatch ; 6219

### I&AP MEETING HELD WITH NEIGHBOUR Mr L STANDER

Dear Sir

Your letter to the applicant for a mining right, Sandman Quarries cc, dated 16 April 2009 and the subsequent meeting refer. Please find attached the minutes of the meeting held at your house on the 21<sup>st</sup> of April 2009 at 16h55.

#### **PRESENT :**

Nr.	Name	Representing	Capacity	Abbreviation
1.	Mr Hein Potgieter	Sandman Quarries cc	Applicant	HPR
2.	Mr Leslie Stander	Neighbouring Home Owner	Affected Party	LSR
3.	Mr Rudi Gerber	Algoa Consulting Mining Engineers	Consultant	RGR

Item	Activity	Remedial Action	Responsibility
1.	HPR opened the meeting briefly and introduced all the parties.		
2.	RGR gave a brief background of the responsibilities of each party and the mining right application process at the DME in terms of the MPRDA		
3.	LSR explained that he does not oppose Sandman Quarries' mining activities, but as a concerned home owner needs to assure that his asset would not be negatively impacted due to these mining activities. He referred to his response letter addressed to Sandman Quarries cc dated 16 April 2009.		





# ALGOA CONSULTING MINING ENGINEERS cc

Item	Activity	Remedial Action	Responsibility
4.	RGR evaluated the concerns listed in the letter and explained that the mitigating measures to be taken by Sandman Quarries cc would be incorporated into the EIA and EMP.		RGR
4.1	<p><b><u>View :</u></b></p> <p>The existing south-eastern view of the house overlooks an area previously disturbed by illegal dumping of refuse and building rubble. The terrain is uneven due to many holes being dug in the past. Alien vegetation has been identified in that area.</p>	Sandman Quarries cc would incorporate into their EMP an improved landscaping design overlooking the Swartkops River as an objective of the final land use (grazing paddocks) after mine closure. Sandman Quarries will eradicate the alien vegetation before establishing proper grazing paddocks.	RGR ; HPR
4.2	<p><b><u>Exposure to Mining Activities :</u></b></p> <p>The property (and its value) is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. LSR is concerned that should the mining activities approach his property within 100m for prolonged periods, the impacts could become worse.</p>	Sandman Quarries cc would schedule their mining plan as such to minimise the mining duration and to start conducting the mining activities in that area concerned first. This will result in the least direct impact, and in addition would yield the highest improvement to the surrounding property value at the earliest possible time.	RGR ; HPR
4.3	<p><b><u>Dust &amp; Noise :</u></b></p> <p>The property is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. LSR is concerned that should the mining activities approach his property within 100m, the direct impacts could become worse.</p>	Prior to the mining activities to start, Sandman Quarries cc would create a berm of a soil stockpile and a grove of trees between the boundary of the property and the mining area. This berm would block the view and reduce the fall-out dust and nuisance noise created by the mining activities. Sandman Quarries cc would schedule their mining plan as such to minimise the mining duration and to start conducting the mining activities in that area concerned first. This will minimise the direct impacts during the shortest possible time. Sandman Quarries cc will continue with its dust suppression methods to reduce the impact of airborne dust.	RGR ; HPR
4.4	<p><b><u>Increased Plant Production &amp; Traffic :</u></b></p> <p>The property is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. LSR is concerned that should the mining production rate</p>	The property is currently being exposed to the impacts of the existing mining activities. Sandman Quarries cc do not plan to increase its throughput capacity, hence the impacts and existing conditions would remain unchanged.	HPR





**ALGOA CONSULTING MINING ENGINEERS cc**

Item	Activity	Remedial Action	Responsibility
	increase, or should the processing plant be relocated closer to his property, then the direct impacts could become worse.	Sandman Quarries cc do not plan to relocate the sand processing plant and hence those impacts remain unchanged.	
4.5	<p><b><u>Piggery &amp; Poultry Farming :</u></b></p> <p>The chicken &amp; pig farming is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. LSR is concerned that should the mining activities approach his property within 100m, the impacts upon the chicken and pig farming could become worse. LSR mentioned that he suffered losses of chickens in the past due to vibrations created by cement block / brick manufacturers across the Swartkops River.</p>	The property is currently being exposed to the impacts of the existing mining activities. Sandman Quarries cc do not plan to increase its throughput capacity, hence the impacts and existing conditions would remain unchanged. Sandman Quarries cc do not plan to relocate the sand processing plant that could be the only source of vibrations (simple harmonic resonance) and hence those impacts remain unchanged. Sandman Quarries cc will continue with its dust suppression methods to reduce the impact of airborne dust.	HPR
4.6	<p><b><u>Mining Distance from Property :</u></b></p> <p>LSR inquired how close the mining operations could become to his property.</p>	RGR explained that under Regulation 17.6 of the Mine Health & Safety Act, this horizontal distance is specified to be no closer than 100 metres except if a proper risk analysis prove that it could be done in a safe manner. The mine boundary pillar should also be no less than 9 metres in thickness. Thus, Sandman Quarries cc would create a berm on the 9 metre boundary pillar to utilise the sand reserves optimally. Mining could approach within 20 metres of the boundary of the property and ensure in such a way to remain clear of the buildings on the property.	RGR ; HPR
5.	LSR emphasised that his intentions are not to prevent Sandman Quarries from mining the sand, but merely to protect his assets.		
6.	RGR explained the steps forward that ACME would take note of the concerns and would incorporate the corresponding remedial steps.		
7.	HPR thanked LSR and RGR for their time and the meeting adjourned.		

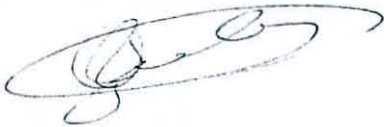


**ALGOA CONSULTING MINING ENGINEERS cc**

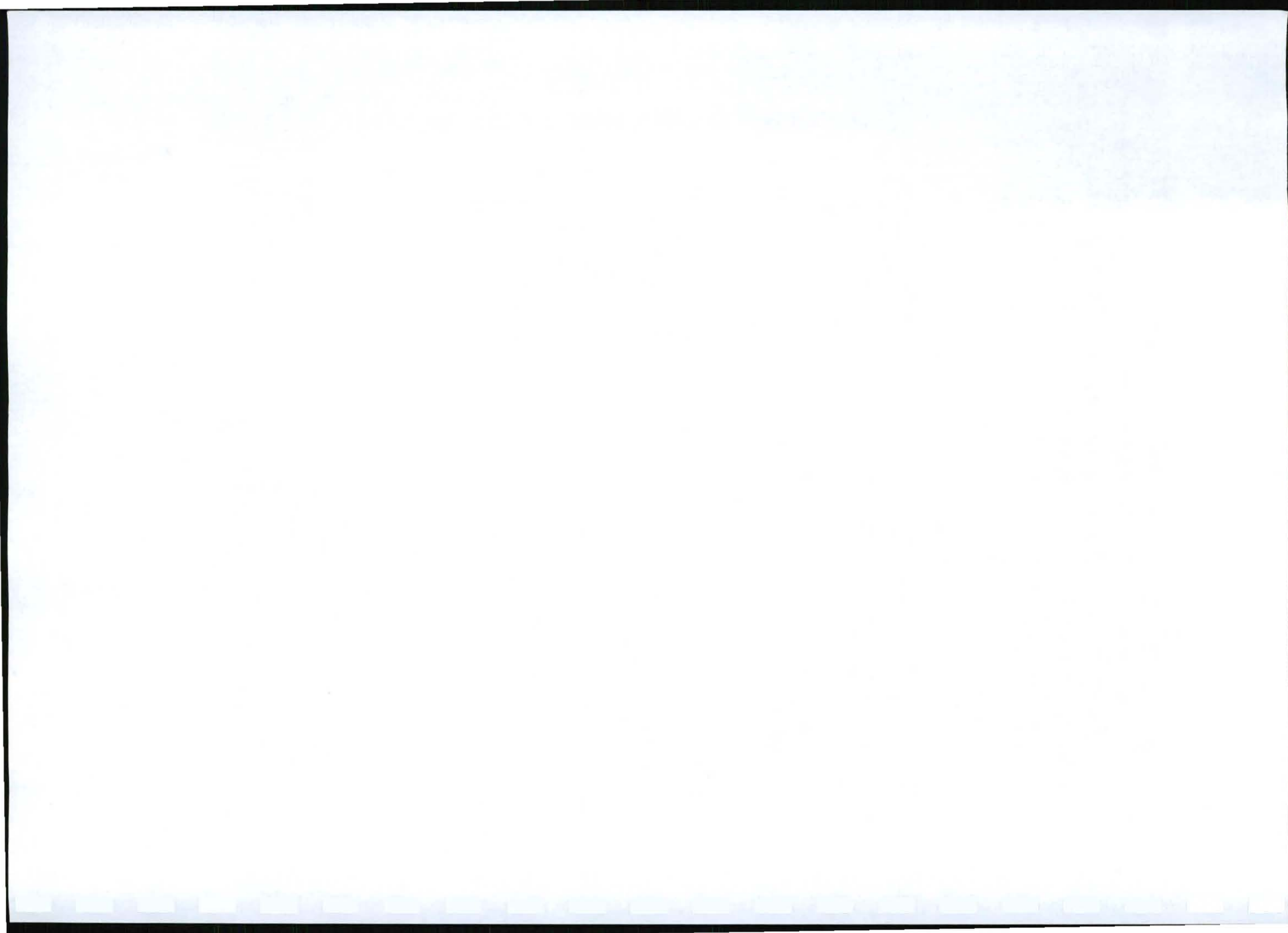
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The application process for a mining right is regulated according to the MPRDA and various stakeholders, such as the role players mentioned in your letter, participate in the decision making process. We hope that we have addressed your concerns, but should you have any further queries, please feel free to contact me.

Yours sincerely



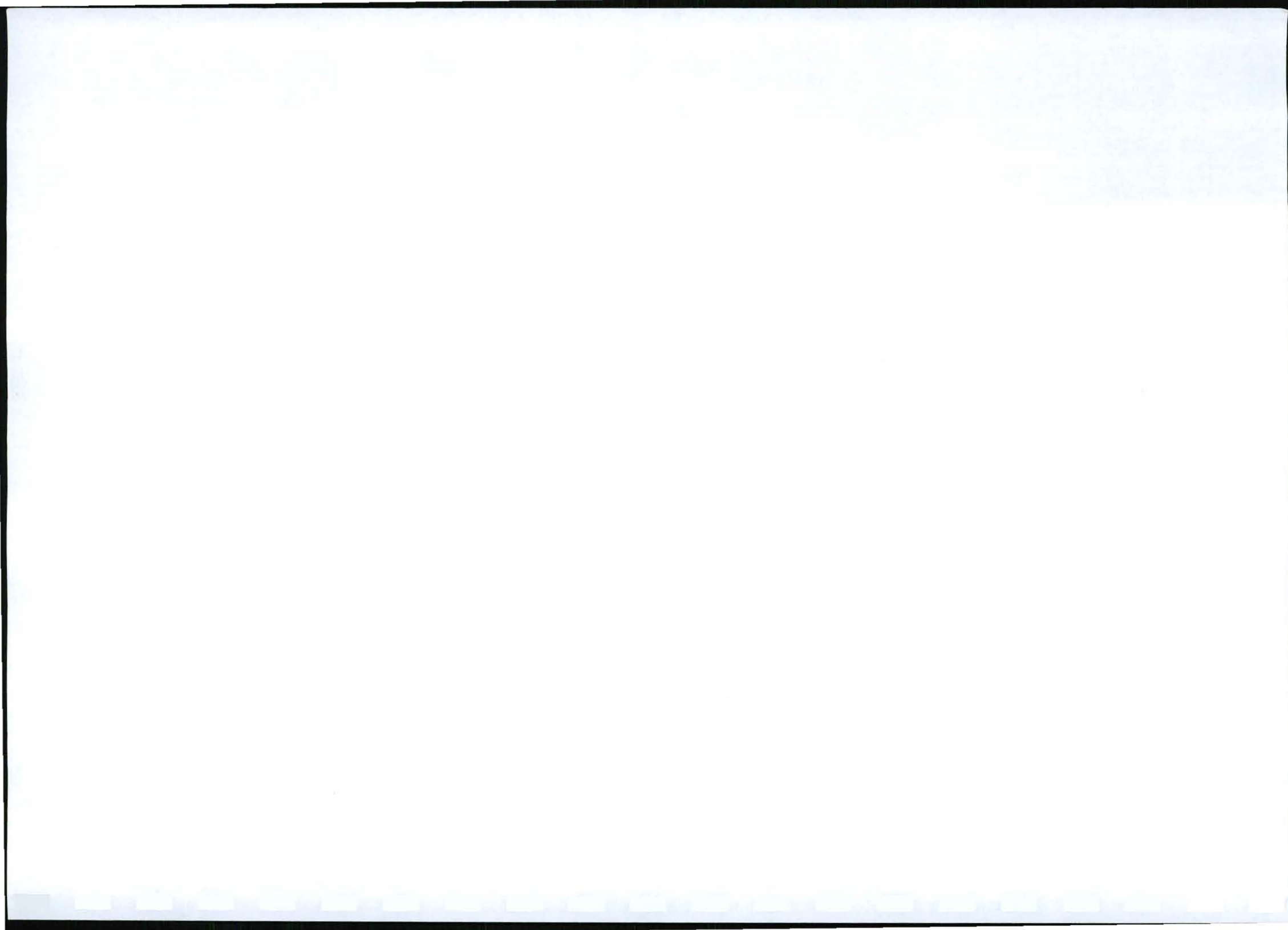
**Rudi Gerber  
B.Eng.(Min)  
Manager  
0826532568**





**SANDMAN QUARRIES cc**

**17. ANNEXURE 6 : REPLY TO NEIGHBOUR, MR. F ALBERTS**





130 Cape Road, Mill Park, P.E., 6001  
 PO Box 16501, Emerald Hill, 6011  
 Republic of South Africa  
 Telephone: National (041) 374 0842  
 International +27 41 374 0842  
 Telefax: National (086) 657 7703  
 International +27 86 657 7703  
 e-mail : rudi@algoacme.co.za

**Our Ref. nr. : 20090421**

**21 April 2009**

**Your Ref. nr : 16 April 2009**

Mr F Alberts  
 Remainder of Portion 67 of farm 567 ; Uitenhage

## **I&AP MEETING HELD WITH NEIGHBOUR Mr F ALBERTS**

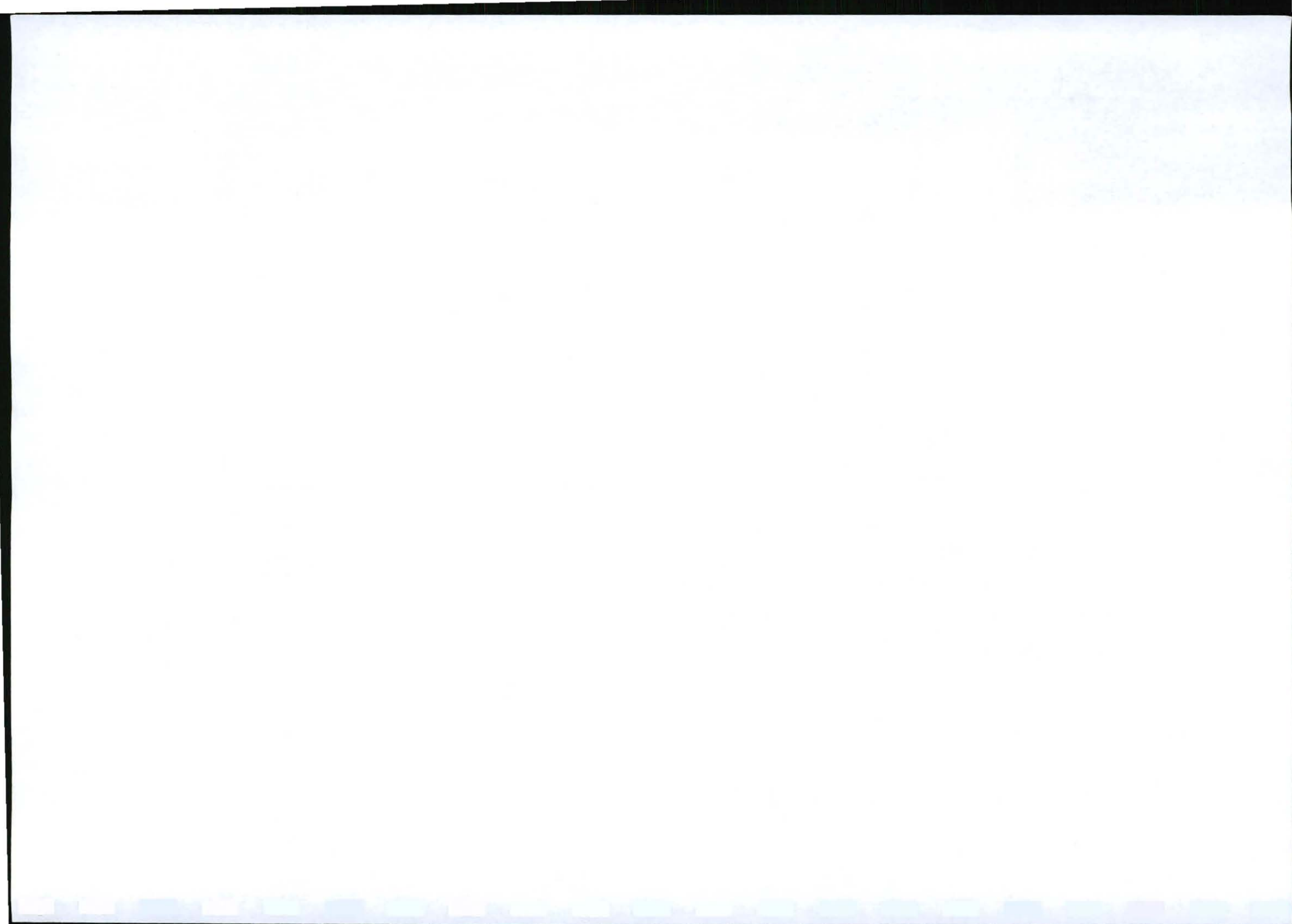
Dear Sir

Your letter to the applicant for a mining right, Sandman Quarries cc, dated 16 April 2009 and the subsequent meeting refer. Please find attached the minutes of the meeting held at Sandman Quarries' Offices on the 21<sup>st</sup> of April 2009 at 17h45.

### **PRESENT :**

<b>Nr.</b>	<b>Name</b>	<b>Representing</b>	<b>Capacity</b>	<b>Abbreviation</b>
1.	Mr Hein Potgieter	Sandman Quarries cc	Applicant	HPR
2.	Mr Died Hattingh	Neighbouring Home Owner	Affected Party	DHH
3.	Mr Francois Alberts	Neighbouring Home Owner	Affected Party	FAS
4.	Mr Rudi Gerber	Algoa Consulting Mining Engineers	Consultant	RGR

<b>Item</b>	<b>Activity</b>	<b>Remedial Action</b>	<b>Responsibility</b>
1.	HPR opened the meeting briefly and introduced all the parties.		
2.	RGR gave a brief background of the responsibilities of each party and the mining right application process at the DME in terms of the MPRDA. RGR requested from DHH and FAS to detail their concerns as their letters objected to the mining project in general.		
3.	RGR could not evaluate the single concern listed in the letters of FAS and DHH as it was not specific. RGR explained that only once these detailed concerns had been addressed, then the		RGR

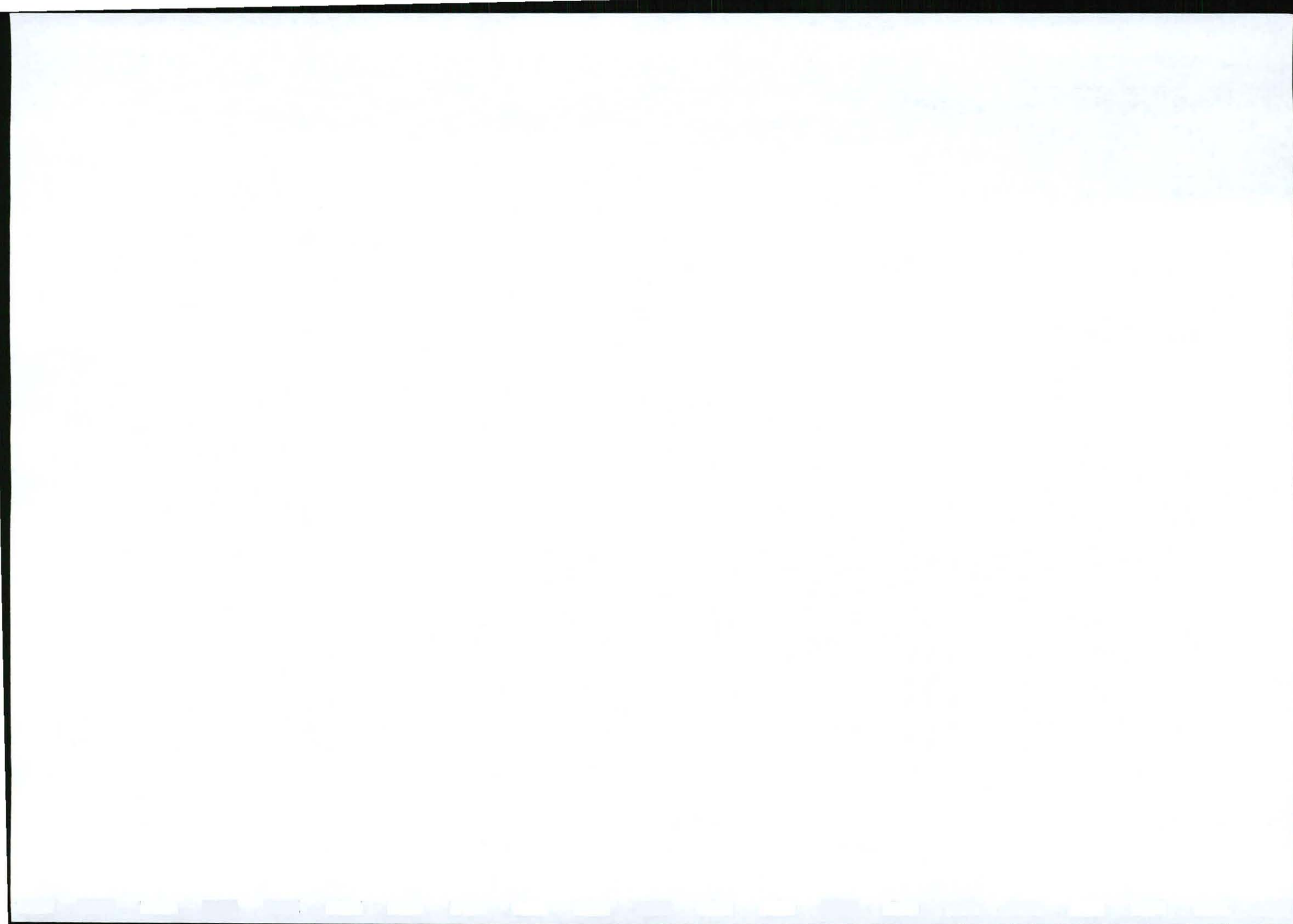




# ALGOA CONSULTING MINING ENGINEERS cc

Item	Activity	Remedial Action	Responsibility
	mitigating measures to be taken by Sandman Quarries cc would be incorporated into the EIA and EMP.		
4.	RGR asked DHH how long he has been residing at the premises and DHH replied that he does not reside on that premises ; that he still needs to build a house and that he currently resides in the township of Despatch. DHH is uncertain when he would develop the property and move onto it as residence.		
5.	RGR asked FAS how long he has been residing at the premises and FAS replied that he plus 3 other people reside on the premises (one 3-bedromm house plus one flatlet) for the past year.		
6.	RGR requested to list their concerns so that mitigating measures could be developed. DHH and FAS had similar concerns as they would be neighbours.		
6.1	<b><u>View :</u></b> The existing south-eastern view of the house overlooks an area previously disturbed by illegal dumping of refuse and building rubble. The terrain is uneven due to many holes being dug in the past. Alien vegetation has been identified in that area. DDH and FAS had no preference to any specific view.	Sandman Quarries cc would incorporate into their EMP an improved landscaping design overlooking the Swartkops River as an objective of the final land use (grazing paddocks) after mine closure. Sandman Quarries will eradicate the alien vegetation before establishing proper grazing paddocks.	RGR ; HPR
6.2	<b><u>Exposure to Mining Activities :</u></b> The property (and its value) is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. DHH & FAS is concerned that should the mining activities approach his property within 100m for prolonged periods, the impacts could become worse.	Sandman Quarries cc would schedule their mining plan as such to minimise the mining duration and to start conducting the mining activities in that area concerned first. This will result in the least direct impact, and in addition would yield the highest improvement to the surrounding property value at the earliest possible time.	RGR ; HPR
6.3	<b><u>Dust &amp; Noise :</u></b> The property is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. DHH & FAS is concerned that should the mining activities approach his property within 100m, the	Prior to the mining activities to start, Sandman Quarries cc would create a berm of a soil stockpile and a grove of trees between the boundary of the property and the mining area. This berm would block the view and reduce the fall-out dust and nuisance noise created by	RGR ; HPR





**ALGOA CONSULTING MINING ENGINEERS cc**

Item	Activity	Remedial Action	Responsibility
	direct impacts could become worse.	the mining activities. Sandman Quarries cc would schedule their mining plan as such to minimise the mining duration and to start conducting the mining activities in that area concerned first. This will minimise the direct impacts during the shortest possible time. Sandman Quarries cc will continue with its dust suppression methods to reduce the impact of airborne dust.	
6.4	<b><u>Increased Plant Production &amp; Traffic :</u></b> The property is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. DHH & FAS is concerned that should the mining production rate increase, or should the processing plant be relocated closer to his property, then the direct impacts could become worse.	The property is currently being exposed to the impacts of the existing mining activities. Sandman Quarries cc do not plan to increase its throughput capacity, hence the impacts and existing conditions would remain unchanged. Sandman Quarries cc do not plan to relocate the sand processing plant and hence those impacts remain unchanged.	HPR
6.5	<b><u>Animals:</u></b> FAS has 2 horses and two dogs on the premises. FAS is concerned that should the mining activities approach his property within 100m, the impacts upon the animals could become worse.	The property is currently being exposed to the impacts of the existing mining activities. Sandman Quarries cc do not plan to increase its throughput capacity, hence the impacts and existing conditions would remain unchanged. Sandman Quarries cc do not plan to relocate the sand processing plant that could be the only source of vibrations (simple harmonic resonance) and hence those impacts remain unchanged. Sandman Quarries cc will continue with its dust suppression methods to reduce the impact of airborne dust. The animals would therefore not be exposed to any impact greater than the existing mining impacts.	HPR
6.6	<b><u>Mining Distance from Property :</u></b> DHH & FAS inquired how close the mining operations could become to his property.	RGR explained that under Regulation 17.6 of the Mine Health & Safety Act, this horizontal distance is specified to be no closer than 100 metres except if a proper risk analysis prove that it could be done in a safe manner. The mine boundary pillar should also be no less than 9 metres in thickness. Thus, Sandman Quarries cc would create a	RGR ; HPR

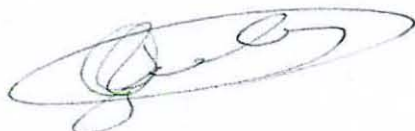


**ALGOA CONSULTING MINING ENGINEERS cc**

Item	Activity	Remedial Action	Responsibility
		berm on the 9 metre boundary pillar to utilise the sand reserves optimally. Mining could approach within 20 metres of the boundary of the property and ensure in such a way to remain clear of the buildings on the property.	
6.7	<b>Road Maintenance :</b> FAS uses the Eland Road to access his property. AS is concerned that should the mining production rate increase, then the condition of the gravel road could deteriorate.	The property is currently being exposed to the impacts of the existing mining activities. Sandman Quarries cc do not plan to increase its throughput capacity, hence the impacts and existing conditions would remain unchanged. Sandman Quarries cc would continue with its road maintenance and dust suppression programme as it currently does to comply with the EMP.	HPR
7.	RGR explained the steps forward that ACME would take note of the concerns and would incorporate the corresponding remedial steps.		
8.	HPR thanked DHH & FAS and RGR for their time and the meeting adjourned.		

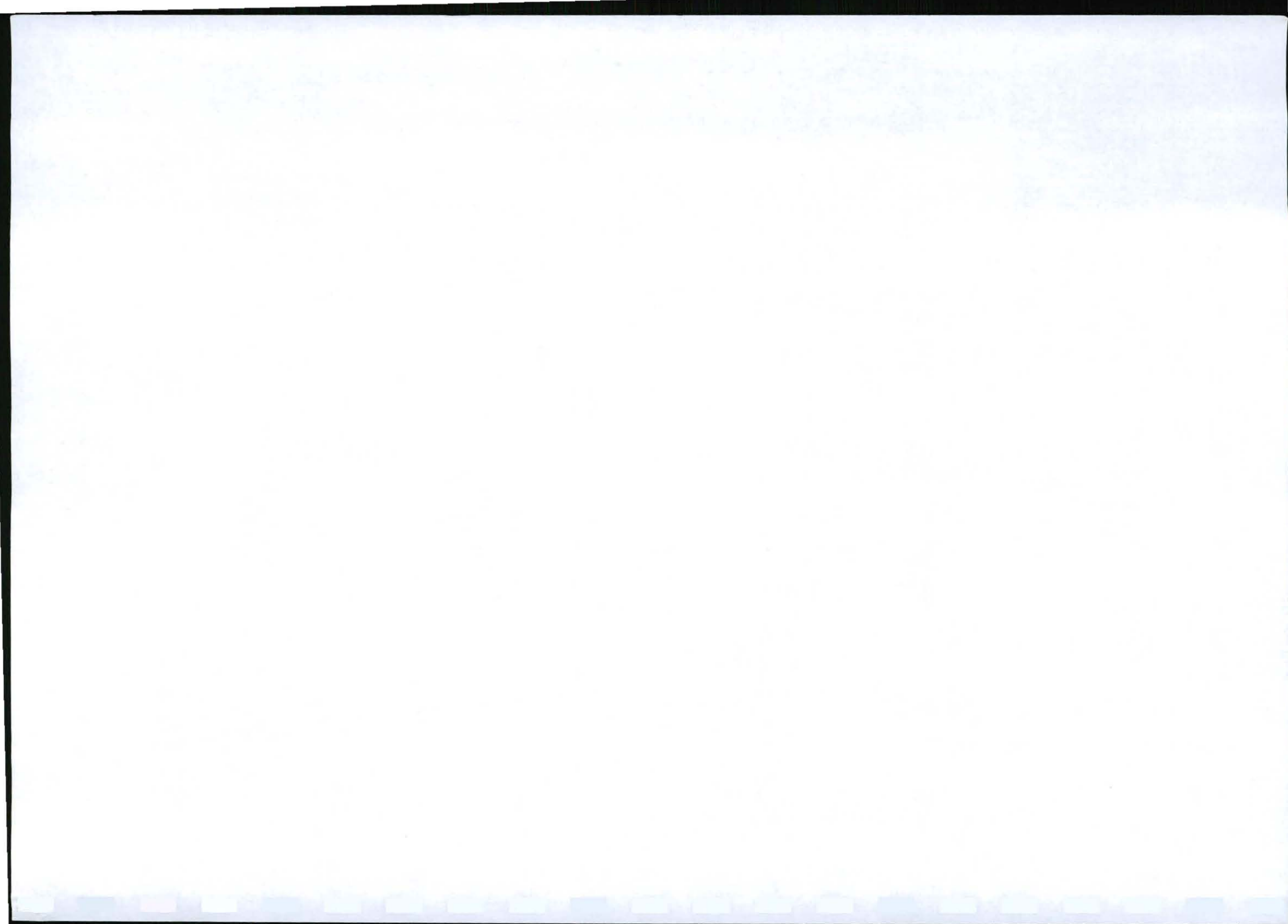
The application process for a mining right is regulated according to the MPRDA and various stakeholders, such as the role players mentioned in your letter, participate in the decision making process. We hope that we have addressed your concerns, but should you have any further queries, please feel free to contact me.

Yours sincerely



**Rudi Gerber**  
**B.Eng.(Min)**  
**Manager**  
**0826532568**

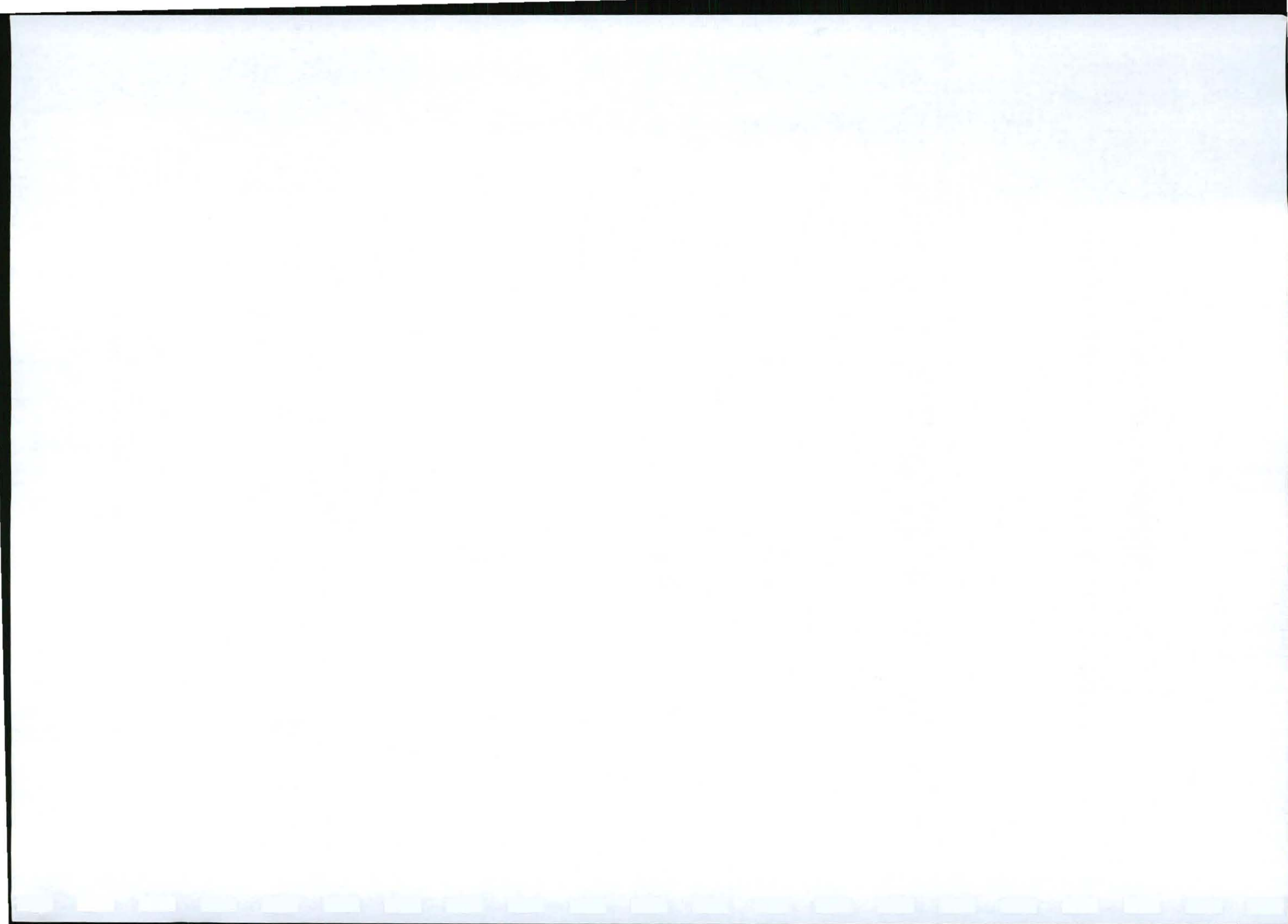






**SANDMAN QUARRIES cc**

**18. ANNEXURE 6 : REPLY TO NEIGHBOUR, MR. D HATTINGH**



## ALGOA CONSULTING MINING ENGINEERS cc



130 Cape Road, Mill Park, P.E., 6001  
PO Box 16501, Emerald Hill, 6011  
Republic of South Africa  
Telephone: National (041) 374 0842  
International +27 41 374 0842  
Telefax: National (086) 657 7703  
International +27 86 657 7703  
e-mail : rudi@algoacme.co.za

Our Ref. nr. : 20090421

21 April 2009

Your Ref. nr : 16 April 2009

Mr D Hattingh  
Portion 116 of 67 of farm 567 ; Uitenhage

### I&AP MEETING HELD WITH NEIGHBOUR Mr D HATTINGH

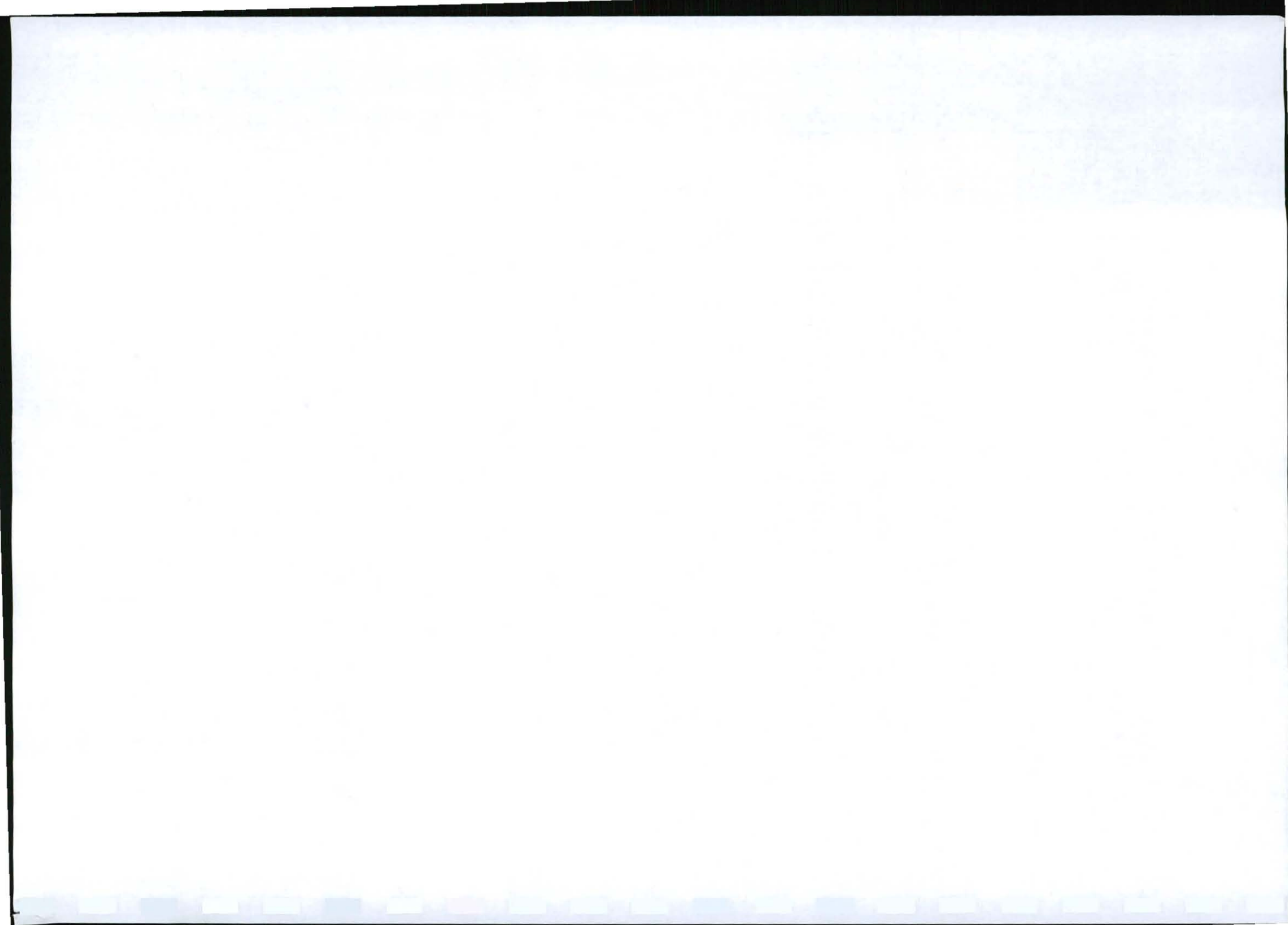
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4.	Mr Rudi Gerber	Algoa Consulting Mining Engineers	Consultant	RGR

Item	Activity	Remedial Action	Responsibility
1.	HPR opened the meeting briefly and introduced all the parties.		
2.	RGR gave a brief background of the responsibilities of each party and the mining right application process at the DME in terms of the MPRDA. RGR requested from DHH and FAS to detail their concerns as their letters objected to the mining project in general.		
3.	RGR could not evaluate the single concern listed in the letters of FAS and DHH as it was not specific. RGR explained that only once these detailed concerns had been addressed, then the		RGR

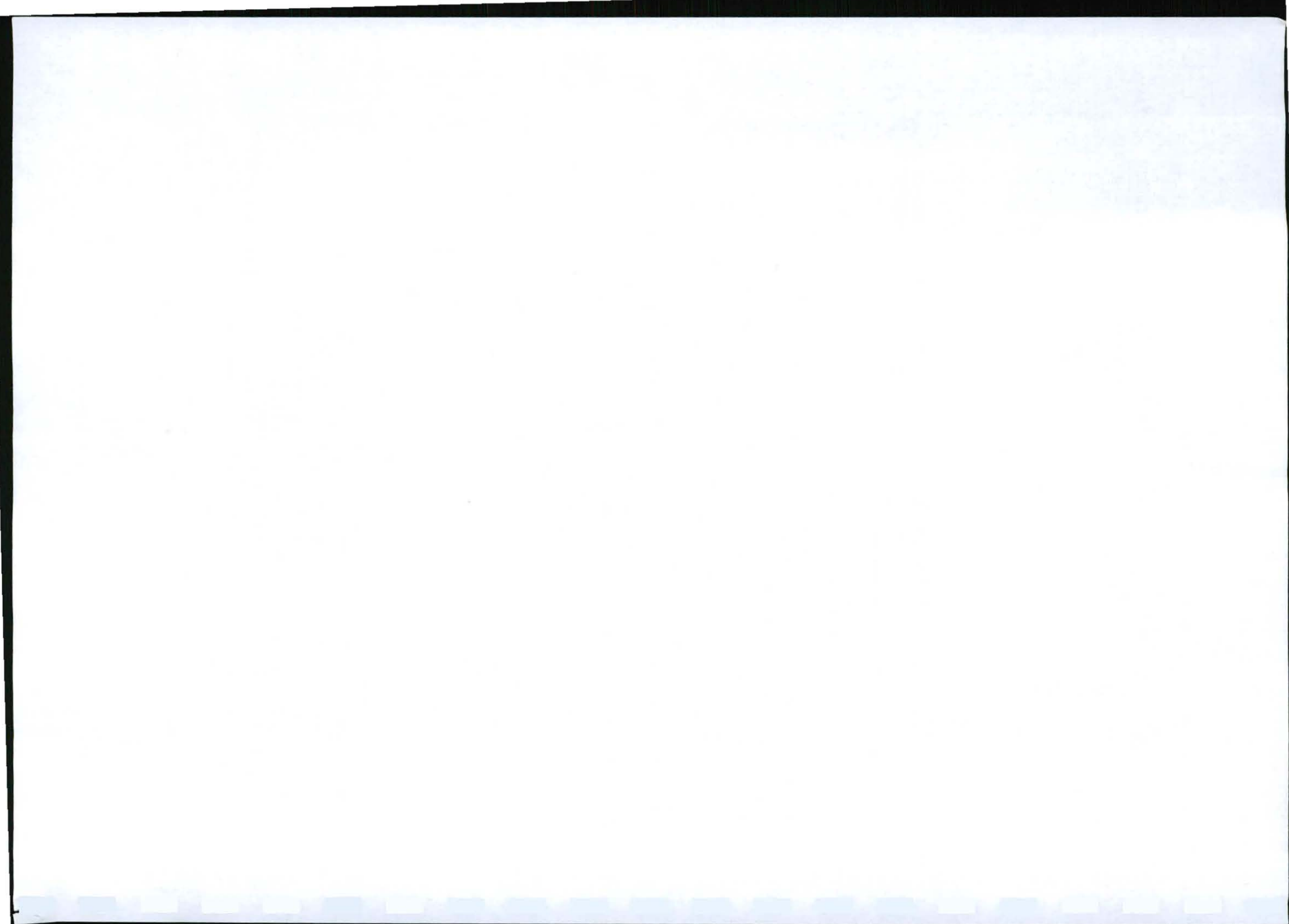




**ALGOA CONSULTING MINING ENGINEERS cc**

Item	Activity	Remedial Action	Responsibility
	mitigating measures to be taken by Sandman Quarries cc would be incorporated into the EIA and EMP.		
4.	RGR asked DHH how long he has been residing at the premises and DHH replied that he does not reside on that premises ; that he still needs to build a house and that he currently resides in the township of Despatch. DHH is uncertain when he would develop the property and move onto it as residence.		
5.	RGR asked FAS how long he has been residing at the premises and FAS replied that he plus 3 other people reside on the premises (one 3-bedromm house plus one flatlet) for the past year.		
6.	RGR requested to list their concerns so that mitigating measures could be developed. DHH and FAS had similar concerns as they would be neighbours.		
6.1	<b><u>View :</u></b> The existing south-eastern view of the house overlooks an area previously disturbed by illegal dumping of refuse and building rubble. The terrain is uneven due to many holes being dug in the past. Alien vegetation has been identified in that area. DDH and FAS had no preference to any specific view.	Sandman Quarries cc would incorporate into their EMP an improved landscaping design overlooking the Swartkops River as an objective of the final land use (grazing paddocks) after mine closure. Sandman Quarries will eradicate the alien vegetation before establishing proper grazing paddocks.	RGR ; HPR
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**ALGOA CONSULTING MINING ENGINEERS cc**

Item	Activity	Remedial Action	Responsibility
	direct impacts could become worse.	the mining activities. Sandman Quarries cc would schedule their mining plan as such to minimise the mining duration and to start conducting the mining activities in that area concerned first. This will minimise the direct impacts during the shortest possible time. Sandman Quarries cc will continue with its dust suppression methods to reduce the impact of airborne dust.	
6.4	<b><u>Increased Plant Production &amp; Traffic :</u></b> The property is currently being impacted upon by mining activities from Sandman Quarries' existing mining permit areas in the vicinity. DHH & FAS is concerned that should the mining production rate increase, or should the processing plant be relocated closer to his property, then the direct impacts could become worse.	The property is currently being exposed to the impacts of the existing mining activities. Sandman Quarries cc do not plan to increase its throughput capacity, hence the impacts and existing conditions would remain unchanged. Sandman Quarries cc do not plan to relocate the sand processing plant and hence those impacts remain unchanged.	HPR
6.5	<b><u>Animals:</u></b> FAS has 2 horses and two dogs on the premises. FAS is concerned that should the mining activities approach his property within 100m, the impacts upon the animals could become worse.	The property is currently being exposed to the impacts of the existing mining activities. Sandman Quarries cc do not plan to increase its throughput capacity, hence the impacts and existing conditions would remain unchanged. Sandman Quarries cc do not plan to relocate the sand processing plant that could be the only source of vibrations (simple harmonic resonance) and hence those impacts remain unchanged. Sandman Quarries cc will continue with its dust suppression methods to reduce the impact of airborne dust. The animals would therefore not be exposed to any impact greater than the existing mining impacts.	HPR
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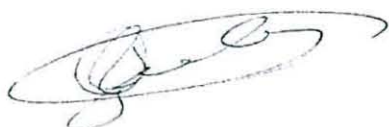


**ALGOA CONSULTING MINING ENGINEERS cc**

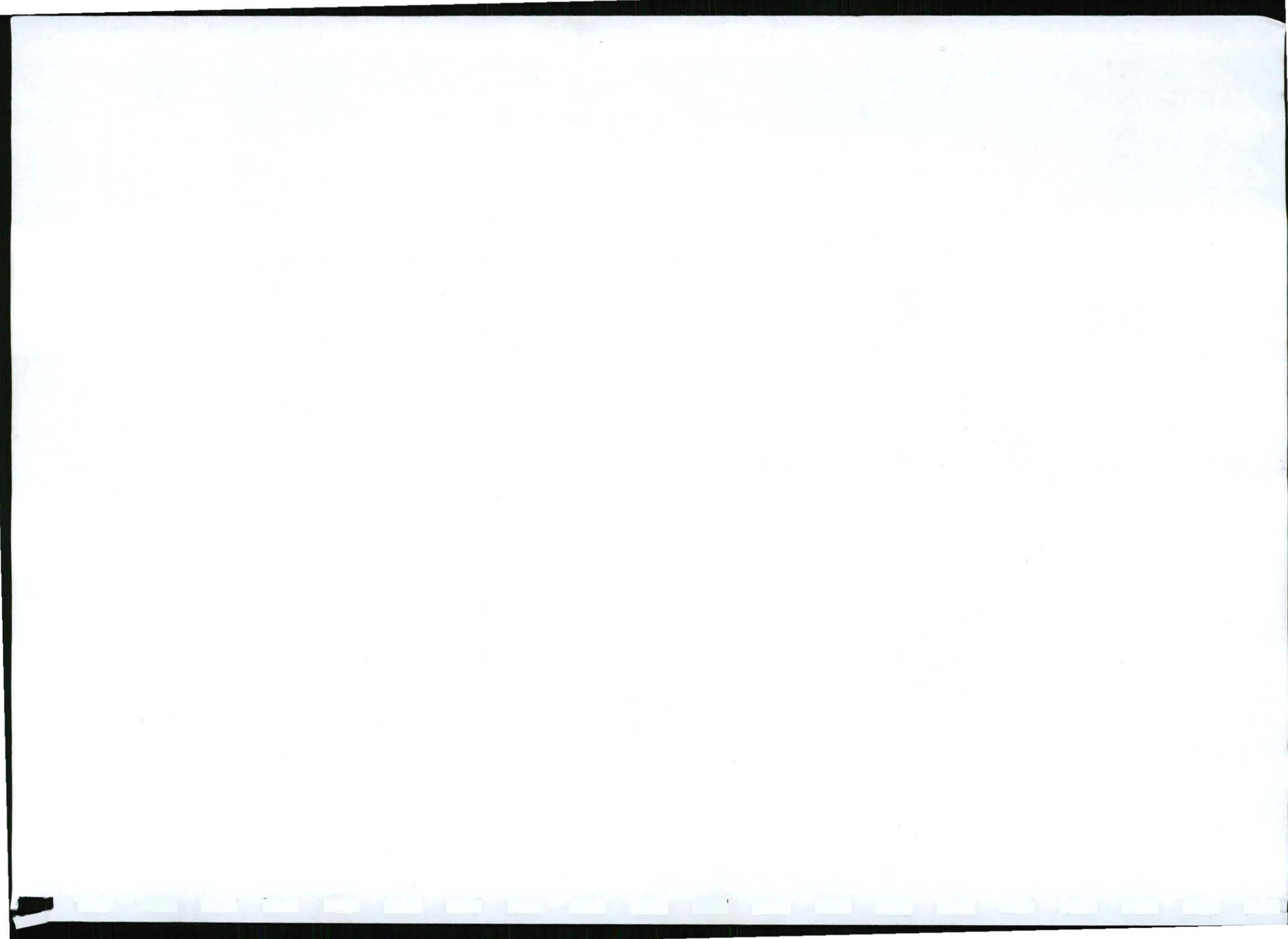
Item	Activity	Remedial Action	Responsibility
		berm on the 9 metre boundary pillar to utilise the sand reserves optimally. Mining could approach within 20 metres of the boundary of the property and ensure in such a way to remain clear of the buildings on the property.	
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7.	RGR explained the steps forward that ACME would take note of the concerns and would incorporate the corresponding remedial steps.		
8.	HPR thanked DHH & FAS and RGR for their time and the meeting adjourned.		

The application process for a mining right is regulated according to the MPRDA and various stakeholders, such as the role players mentioned in your letter, participate in the decision making process. We hope that we have addressed your concerns, but should you have any further queries, please feel free to contact me.

Yours sincerely



**Rudi Gerber**  
**B.Eng.(Min)**  
**Manager**  
**0826532568**





Drawing Nr. MD01  
Revision Nr. 1.0  
Sheet Nr. 1 of 2

Drawing Title

Sandman Quarry belonging to  
Sandman Quarries cc

Sheet Title

Mine design plan

Coordinate System WG 25

Benchmark Detail : Trig. ΔT101

X = +3746216,18

Y = -49738,51

Elevation = 73,6 m.a.m.s.l.

Scale 1 : 15000



LEGEND



- Primary targetted mining blocks
- Secondary targetted mining blocks
- Mining right area boundary
- Boundary buffer (pillar) and powerline buffer (10m)
- Roads
- Servitudes

# NOTES

The drawing A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z, 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 2L, 2M, 2N, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K, 3L, 3M, 3N, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4J, 4K, 4L, 4M, 4N, 4P, 4Q describes a mining right area in extent of 235,2469 hectares of opencast mine belonging to Sandman Quarries cc

Designation Mine Manager  
Name H. Potgieter

Signature   
Date 18/08/09

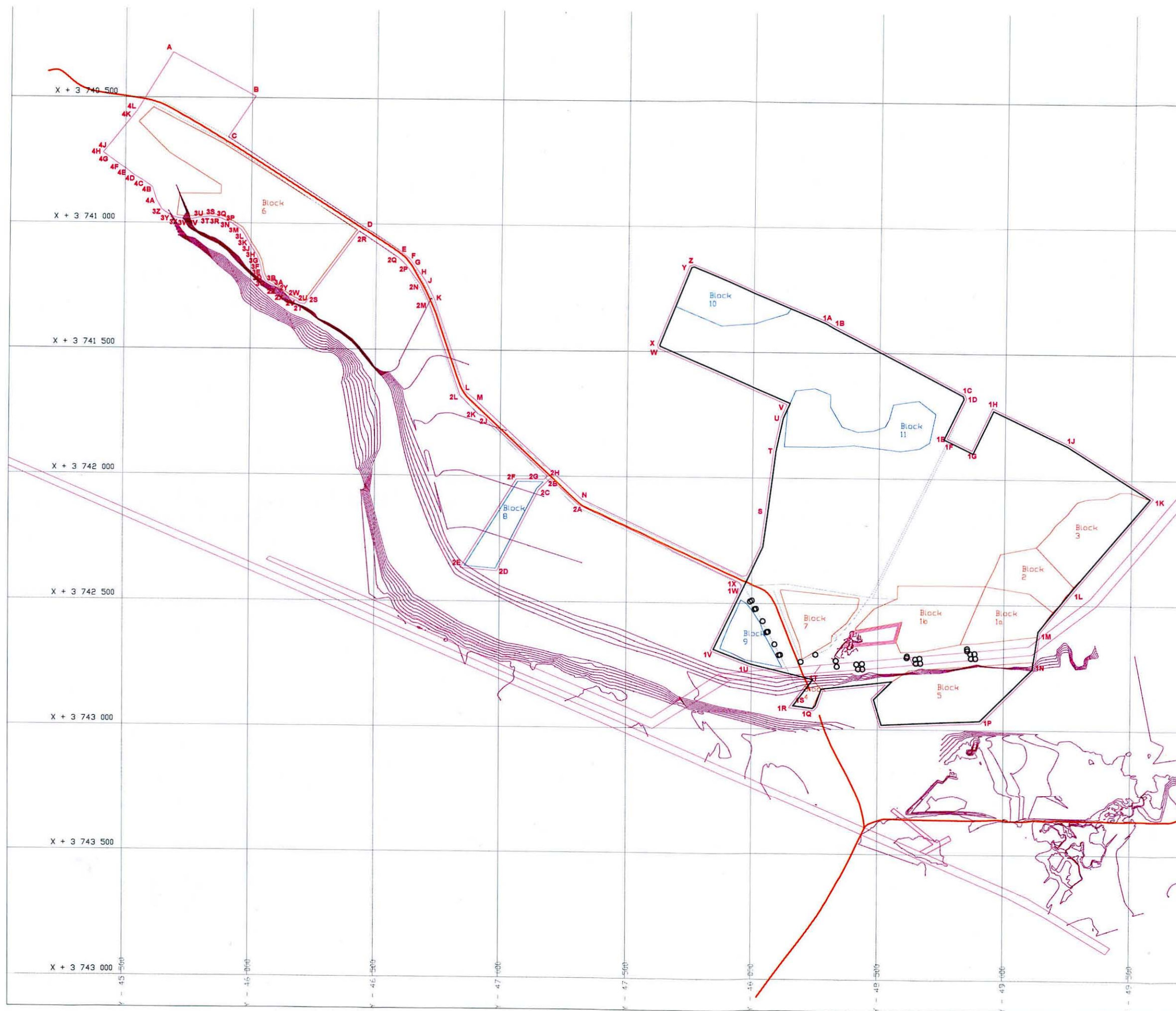
ALGOA CONSULTING MINING ENGINEERS

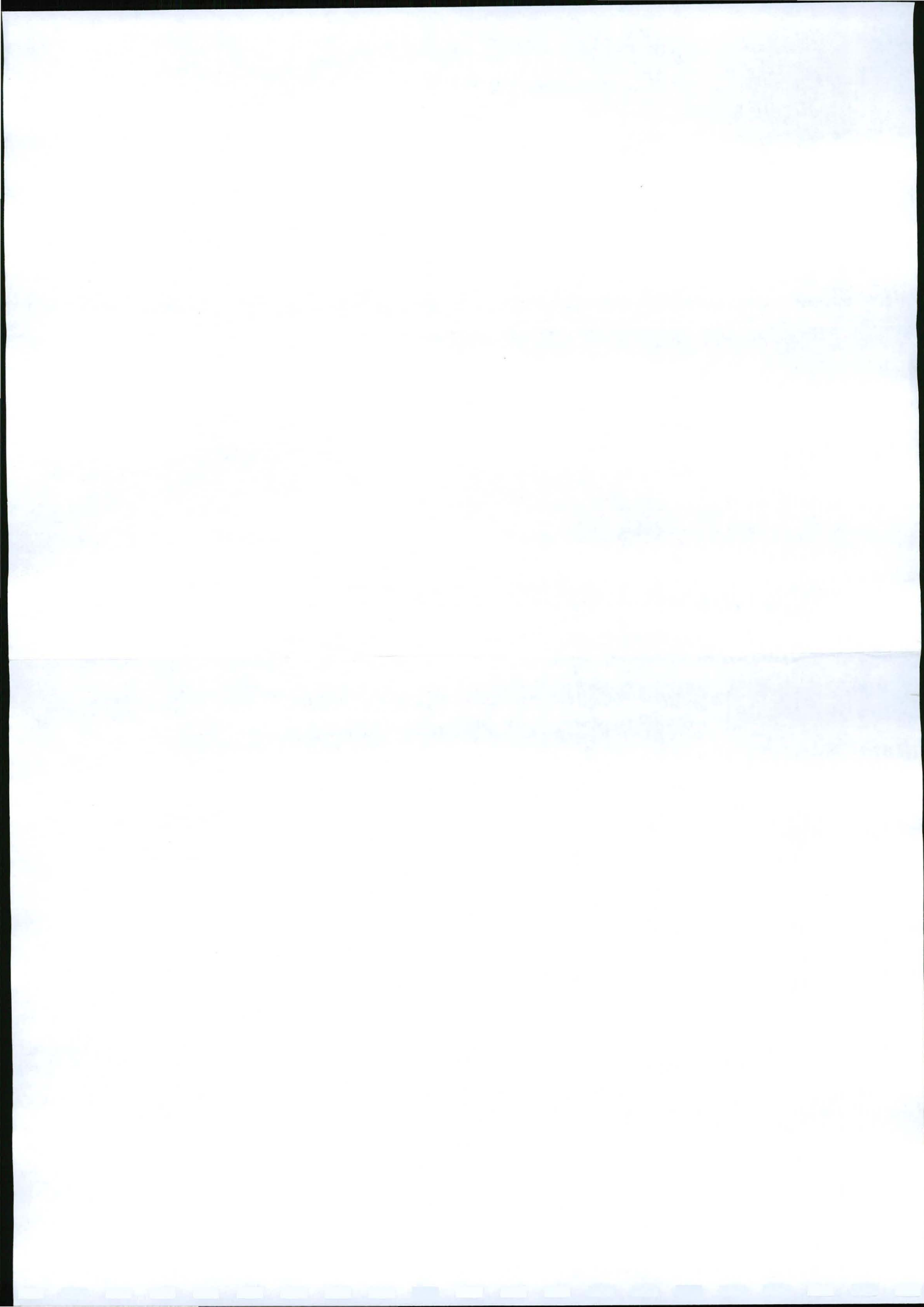
R. Gerber  
B.Eng.(Min.)  
Cell. 0826532568

130 Cape Rd. Mill  
Park PE

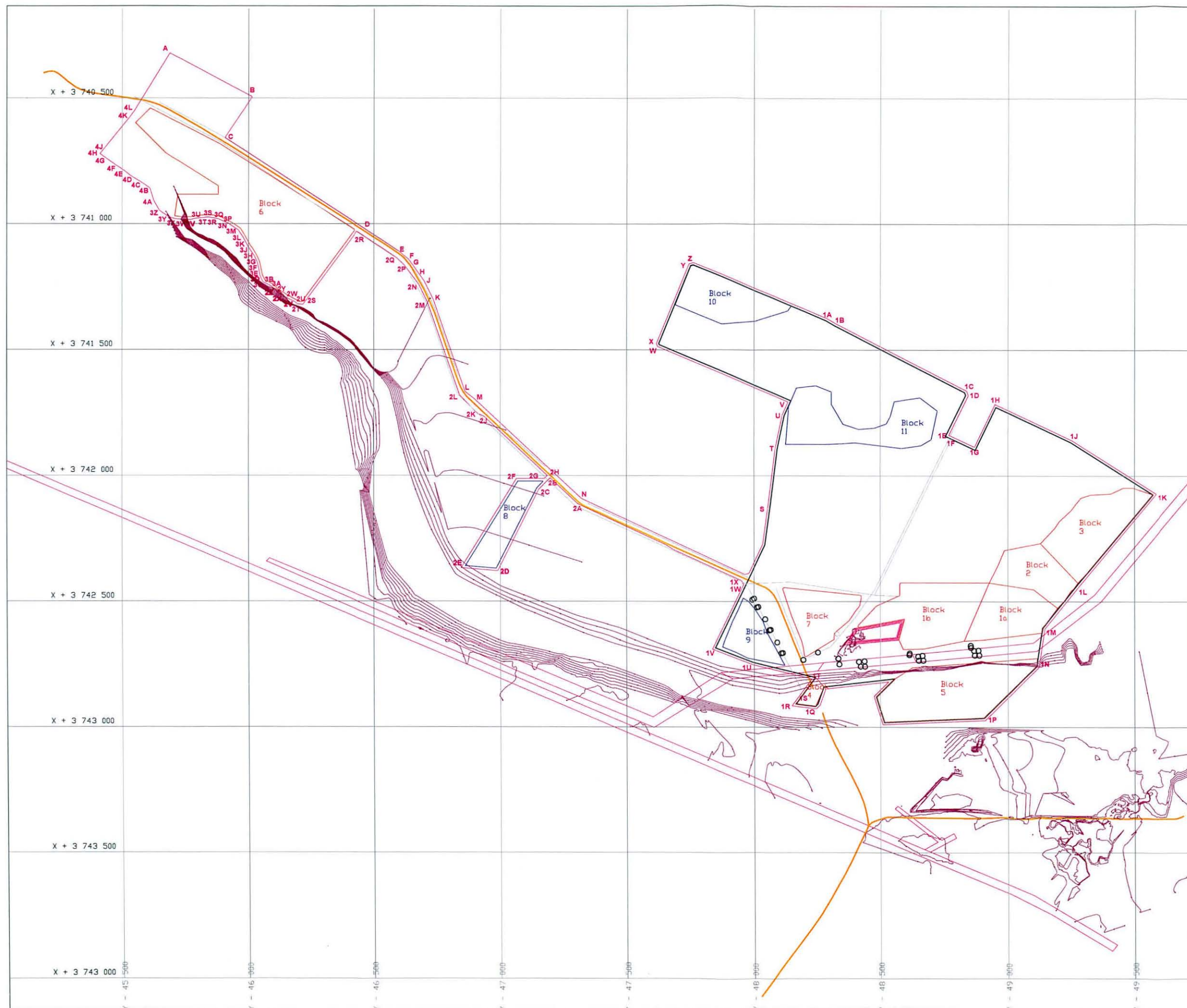
Name R. Gerber

Signature   
Date 18/08/09









Drawing Nr.	MD01
Revision Nr.	1.0
Sheet Nr.	1 of 2

Drawing Title

Sandman Quarry belonging to  
Sandman Quarries cc

Sheet Title

Mine design plan

Coordinate System WG 25

Benchmark Detail : Trig. ΔT101

X = +3746216,18

Y = -49738,51

Elevation = 73,6 m.a.m.s.l.

Scale 1 : 15000



# LEGEND



- Primary targeted mining blocks
- Secondary targeted mining blocks
- Mining right area boundary
- Boundary buffer (pillar) and powerline buffer (10m)
- Roads
- Servitudes

## NOTES

The drawing A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z, 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 2L, 2M, 2N, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K, 3L, 3M, 3N, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4J, 4K, 4L, 4M, 4N, 4P, 4Q describes a mining right area in extent of 235,2469 hectares of opencast mine belonging to Sandman Quarries cc

Designation	Mine Manager
Name	H. Potgieter

Signature

Date

18/08/09

ALGOA CONSULTING MINING ENGINEERS

R. Gerber  
B.Eng (Min.)  
Cell. 0826532568

130 Cape Rd. Mill  
Park PE

Name

R. Gerber

Mining Engineer

Signature

Date

18/08/09

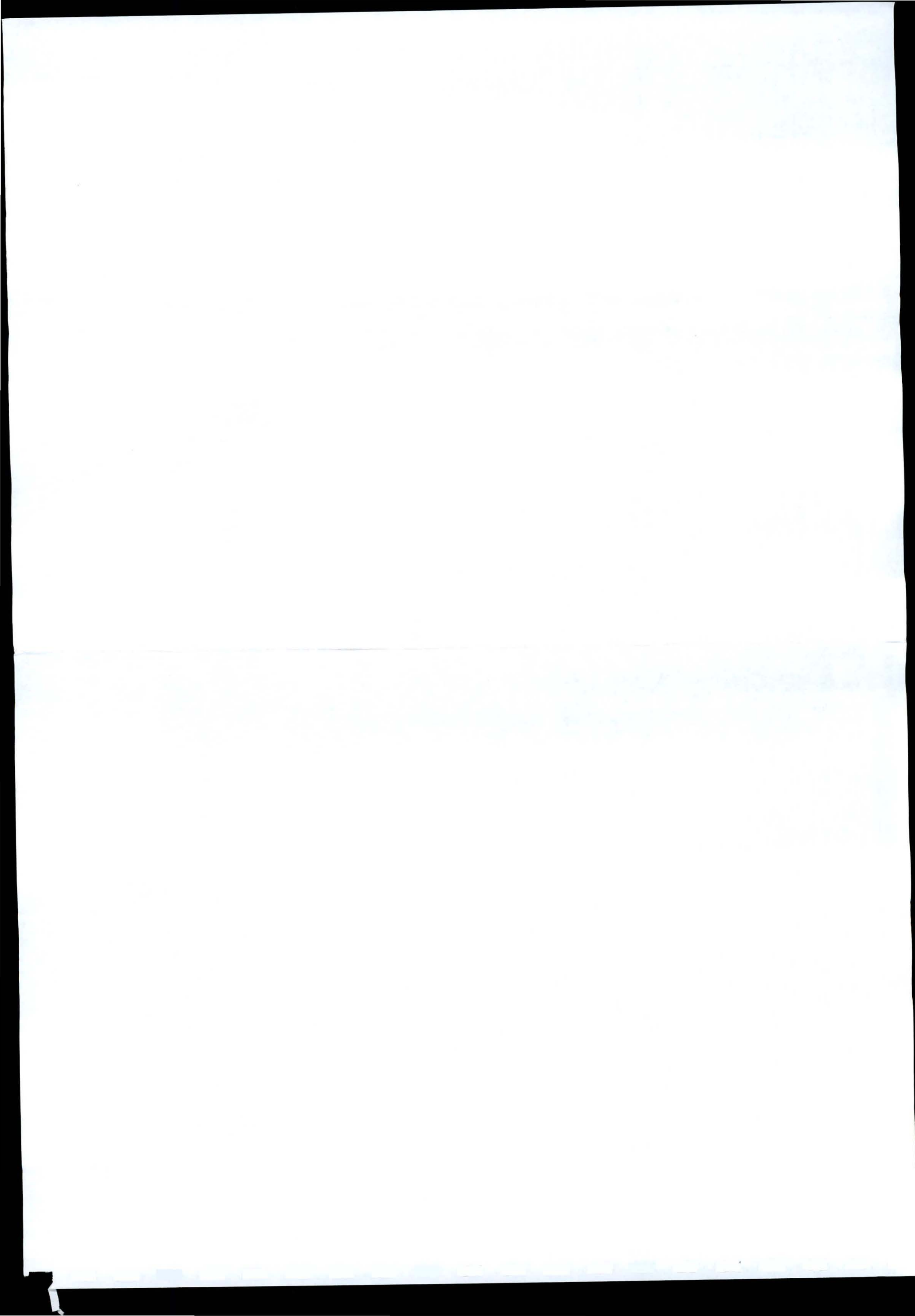






Drawing Nr.	MD01
Revision Nr.	1.0
Sheet Nr.	2 of 2
Drawing Title	
Sandman Quarry belonging to Sandman Quarries cc	
Sheet Title	
Mine Closure Plan	
Coordinate System	WG 25
Benchmark Detail : Trig. ΔT101 X = +3746216,18 Y = -49738,51 Elevation = 73,6 m.a.m.s.l.	
Scale 1 : 15000	
LEGEND	
Primary targetted mining areas Secondary targetted mining areas Mining right area boundary Storm water berms and channels Roads Servitudes Wetland rehabilitation Grassland (pasture) rehabilitation	
NOTES	
The drawing A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z, 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1J, 1K, 1L, 1M, 1N, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2J, 2K, 2L, 2M, 2N, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3J, 3K, 3L, 3M, 3N, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4J, 4K, 4L, 4M, 4N, 4P, 4Q describes a mining right area in extent of 235,2469 hectares of opencast mine belonging to Sandman Quarries cc	
Designation	Mine Manager
Name	H. Potgieter
Signature	
Date	18/08/09
ALGOA CONSULTING MINING ENGINEERS	
Mark Horan B.Eng.(Min.) Cell. 0731789469	130 Cape Rd. Mill Park PE
Name	R. Gerber
Mining Engineer	
Signature	
Date	18/08/09





## Rehabilitation costs for Sandman Quarries

Block	Area in m2	Prov. for block	Years																																
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
			Phase 1												Phase 2				Phase 3			Phase 4					Phase 5								
Block 1a	55464	R 43 135.57	R 66 212.13	R 43 135.57	R 66 212.13	R 43 135.57	R 66 212.13	R 43 135.57	R 66 212.13	R 43 135.57	R 66 212.13	R 43 135.57	R 66 212.13	R 43 135.57	R 66 212.13																				
Block 1b	85136	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13	R 66 212.13																				
Block 2	48169	R 37 462.09														R 37 462.09	R 37 462.09	R 37 462.09	R 37 462.09																
Block 3	72068	R 56 048.86																		R 56 048.86	R 56 048.86	R 56 048.86													
Block 7	60437	R 47 003.18																					R 47 003.18	R 47 003.18	R 47 003.18	R 47 003.18	R 47 003.18								
Block 8	38036	R 29 581.43																										R 29 581.43							
Block 9	58575	R 45 555.06																											R 45 555.06						
Block 10	57975	R 45 088.43																												R 45 088.43					
Block 11	48297	R 37 561.64																														R 37 561.64			
Block 4 stone	15249	R 11 859.48																																	
Block 5 stone	112357	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50	R 87 382.50																				
Block 6 stone	179353	R 139 486.76																																	
Block 6 plant	45240	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94	R 128 755.94																				
Totals	820892	R 128 755.94	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 325 486.14	R 337 345.63	R 337 345.63	R 253 600.53	R 253 600.53	R 272 187.30	R 411 674.07	R 411 674.07	R 402 628.38	R 402 628.38	R 402 628.38	R 402 628.38	R 402 628.38	R 245 719.87	R 261 693.50	R 261 693.50	R 306 781.93	R 261 226.87	R 253 700.08	R 216 138.44	
TOTAL for phases			R 337 346												R 253 601				R 411 674			R 402 628					R 306 782								

