



**the dme**

Department:  
Minerals and Energy  
REPUBLIC OF SOUTH AFRICA

DME 12

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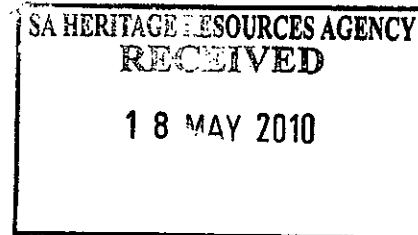
Enquiries: D.A. Watkins  
E-mail: deidre.watkins@dme.gov.za

Reference:  
Date:

EC30/5/1/3/3/2/1(0344)EM  
27 July 2009

Case 10: 2310

South African Heritage Resources Agency  
P.O. Box 758  
EAST LONDON GRAHAMSTOWN  
~~5200~~ 6140



ATTENTION: MR. T. LUNGILE

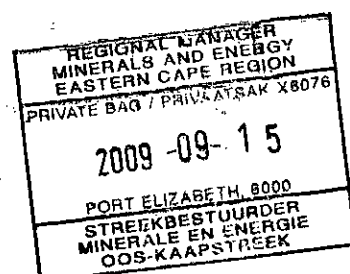
Sir

**CONSULTATION IN TERMS OF SECTION 40 OF THE MPRDA OF 2002:  
GRAVEL MINING ON THE REMAINDER OF PORTION 35 (LUCERNE) (A  
PORTION OF PORTION 1) OF THE FARM KRUIS RIVIER NO. 337, NELSON  
MANDELA METROPOLITAN MUNICIPALITY, DIVISION OF UITENHAGE,  
EASTERN CAPE**

1. Mr. S S Montoedi applied for a mining permit on the abovementioned area. Attached the following for your attention and comments:
  - ❖ Contact details of the applicant;
  - ❖ Locality Map;
  - ❖ Mine Development Plan
2. Please forward any written comments or requirements your department may have in this regard, to this office no later than **18 September 2009**. Failure to do so, will lead to the assumption that your department has no objection(s) or comments with regard to the said documents.
3. Consultation in this regard has also been initiated with other relevant State Departments.
4. Please use the reference numbers as indicated in all future correspondence.
5. Your co-operation is appreciated.

Yours faithfully

REGIONAL MANAGER  
EASTERN CAPE





## PERSONAL PARTICULARS OF APPLICANTS

### Applicant and responsible person

Mr. S.S. Montoedi  
P O Box 6268  
Uitenhage  
6230

or

4 Tinisa Lane  
Mandela Village  
Langa  
6229

ID: 511226 5336 089

Cell: 073 243 2879

### Appointed mine manager

A.M. Harbron  
La France  
P O Box 617  
Uitenhage  
6230

Tel: 041 - 9921319/9910600

Fax No: 041 - 4846231

### Surface owner

A. M. Harbron

### Holder of mineral rights

State

### Title deed description

Portion 35 (Lucerne) (A Portion of Portion 1) of the farm Kruis River 337, Uitenhage

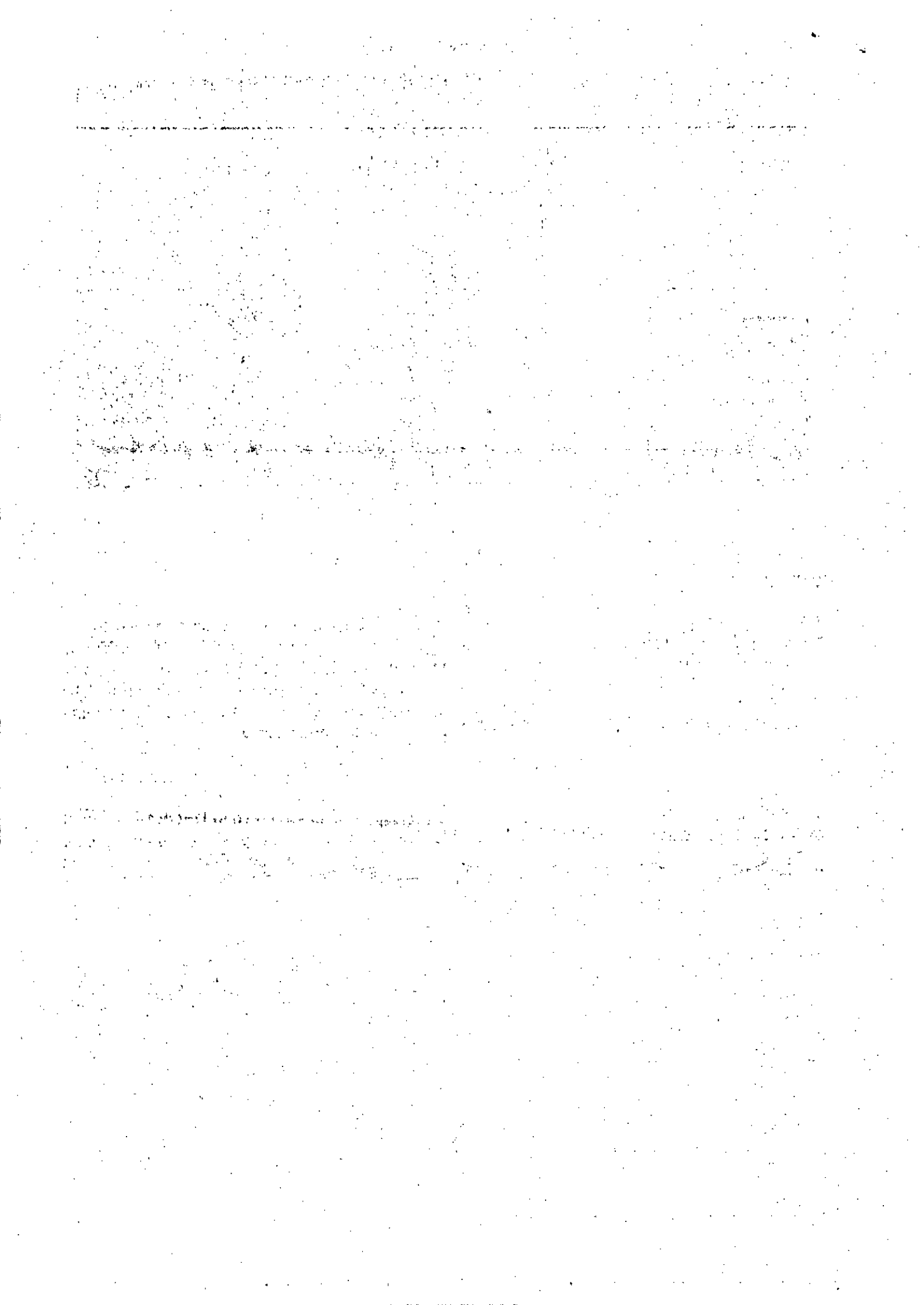
## LAND DESCRIPTION / INFORMATION

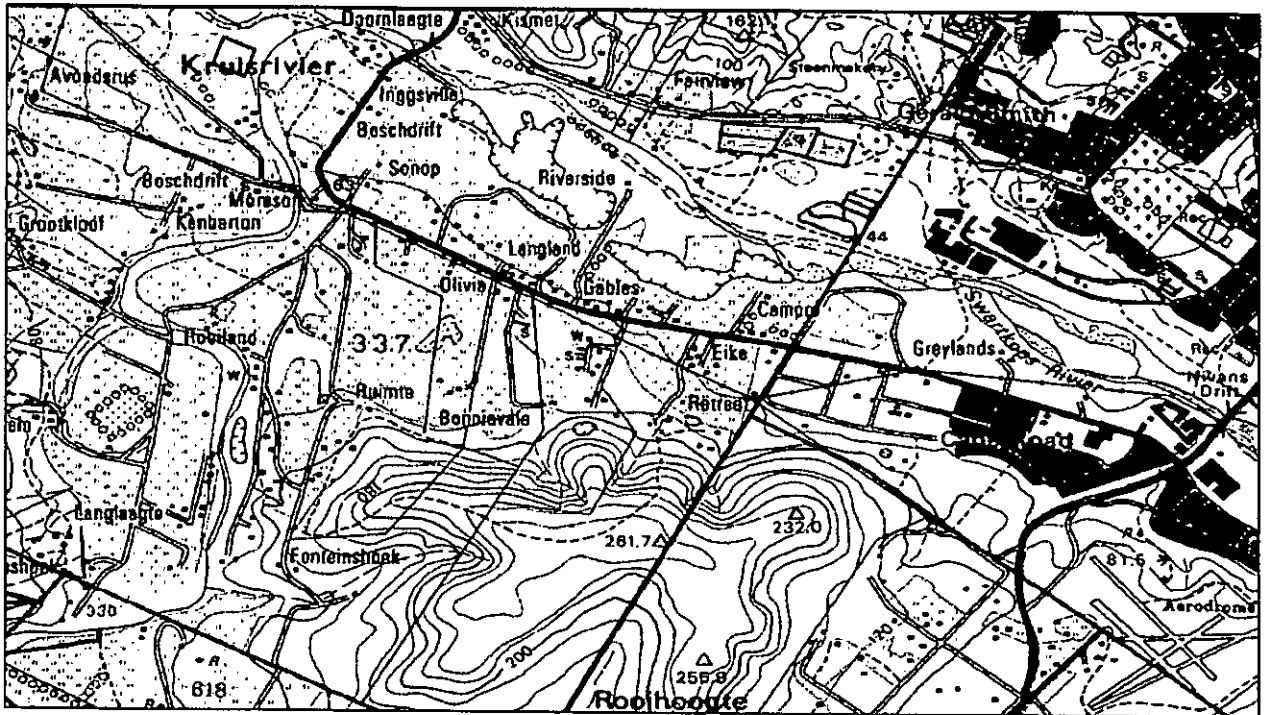
### **Regional Setting**

#### Regional setting

The proposed quarry is situated in the magisterial district of Uitenhage and is under control of the Nelson Mandela Bay Municipality. The proposed sand quarry is situated about 8 km west of Uitenhage when accessed from the Cuyler & Kruis River Roads. Access to the quarry is gained by turning left onto the Elands River gravel road where the tarred section of Kruis River Road ends. At the 1<sup>st</sup> fork of the Elands River road, keep right and follow the road over the low water bridge and turn right at the 2<sup>nd</sup> fork in the road and carry on with the gravel road until the farm Lucerne is reached on the right-hand side of the road.

The proposed mining site is situated in a semi-rural area surrounded by small farms, mostly owned by the Albert Harbron Trust. There are no roads, Eskom lines or other infrastructure in close proximity to the site.





## Surface infrastructure

### Surrounding areas

The area around the proposed site is sparsely populated with four farm residences located to the south, south-west, west and south-east opposite the river, all further away than 540m with the proposed mining area. No power line or telephone line servitudes are registered in close proximity to the mine area. The gravel access road to the farm is located approximately 450m to the west. The Groendal Road will be used as main access to the property and to the relevant markets. The mining area of Lance Harbron is located immediately adjacent to the new mining area.

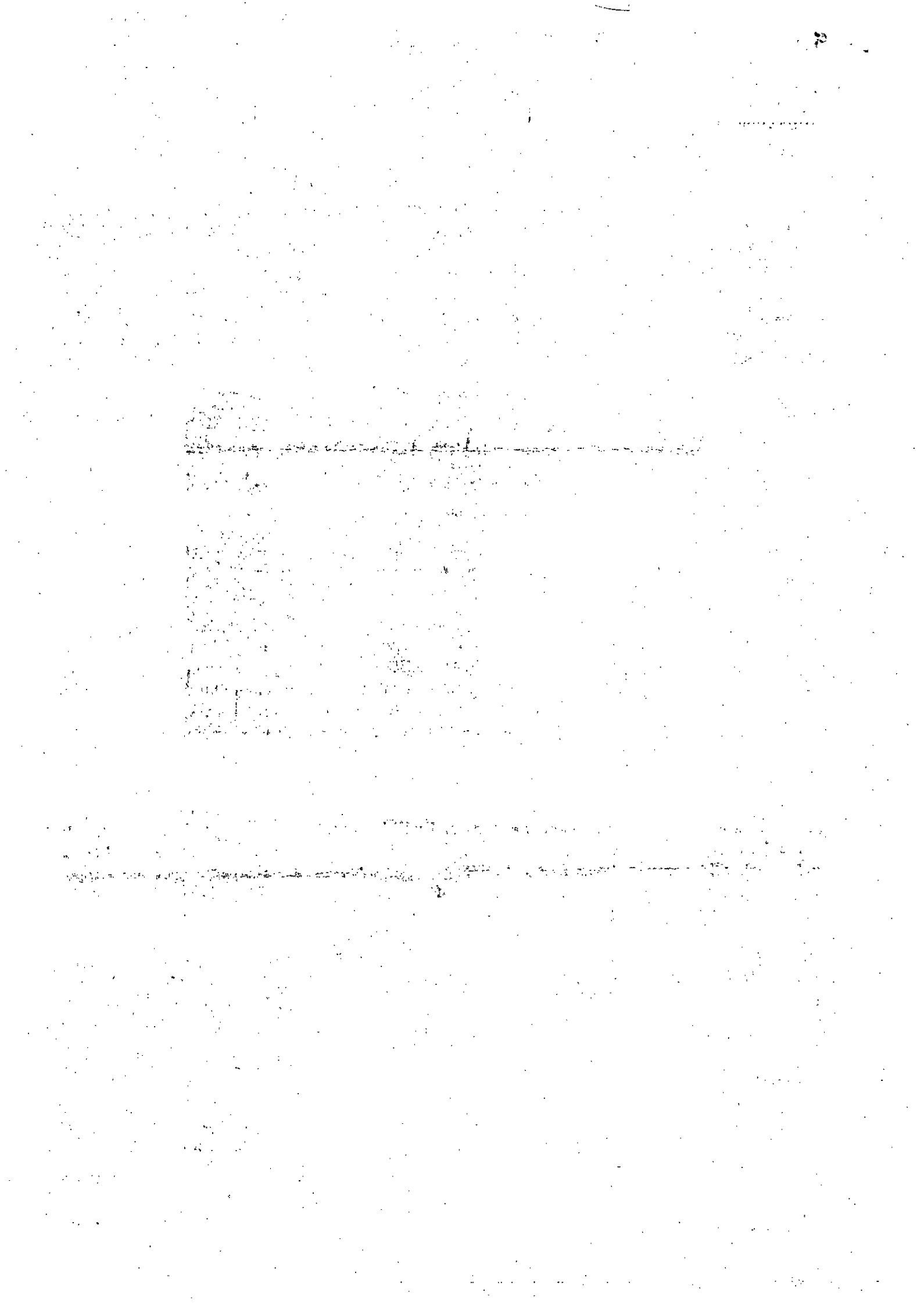
An existing access road will connect the mining area on the southern bank and crushing plant located on the farm Vrede on the northern bank. This road was approved as part of the original Rens application referred to and a submission for a river crossing was also submitted to DEDEA on request by Mr. Struwig. Since this road has a stable cobblestone surface no road upgrading will be required. The property is fenced and gates restrict access to the site from both the gravel Elands River road and Groendal Road.

### Mine

There is no infrastructure within the mine area as the fluvial environment and regulations of the National Water Act will preclude the establishment of any fixed infrastructure on site. As already stipulated no plant will be established onsite but a chemical toilet will be positioned on the south-western boundary to prevent the surrounds being used for ablutions. All trucks will be parked offsite but the excavator will remain onsite on high ground. Limited stockpiles will also be established within each mining phase.

### Presence of servitudes

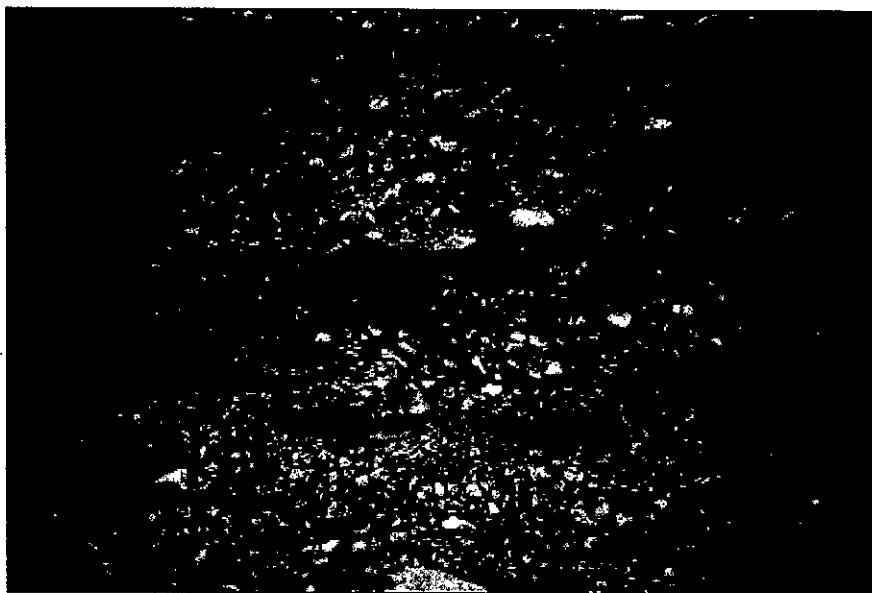
There are no servitudes registered in the proposed quarry area.



## Prospecting/viability

### Prospecting

The Swartkops River and its floodplain hosts a number of quarry concerns for almost 30 years now along the length of the river and provides for a substantial amount of construction material. This is indicative of the mining potential of the area and the adequacy/quality of stone reserves, which in turn proves the economic sustainability of the proposed project. The study area hosts the same quality material that was mined to the north-west under cover of the mining license issued to Mr. Rens and material that is currently being mined by Mr. Harbron adjacent to the proposed mining area. The established production face reveals a 2m thick matrix of sand and stone, which provide sufficient evidence that adequate mineral reserves are present in the area applied for. Approximately 40 000 cubic meters of sand, stone and gravel is available on site. Please refer to geological map for additional information.



### Mining methodology

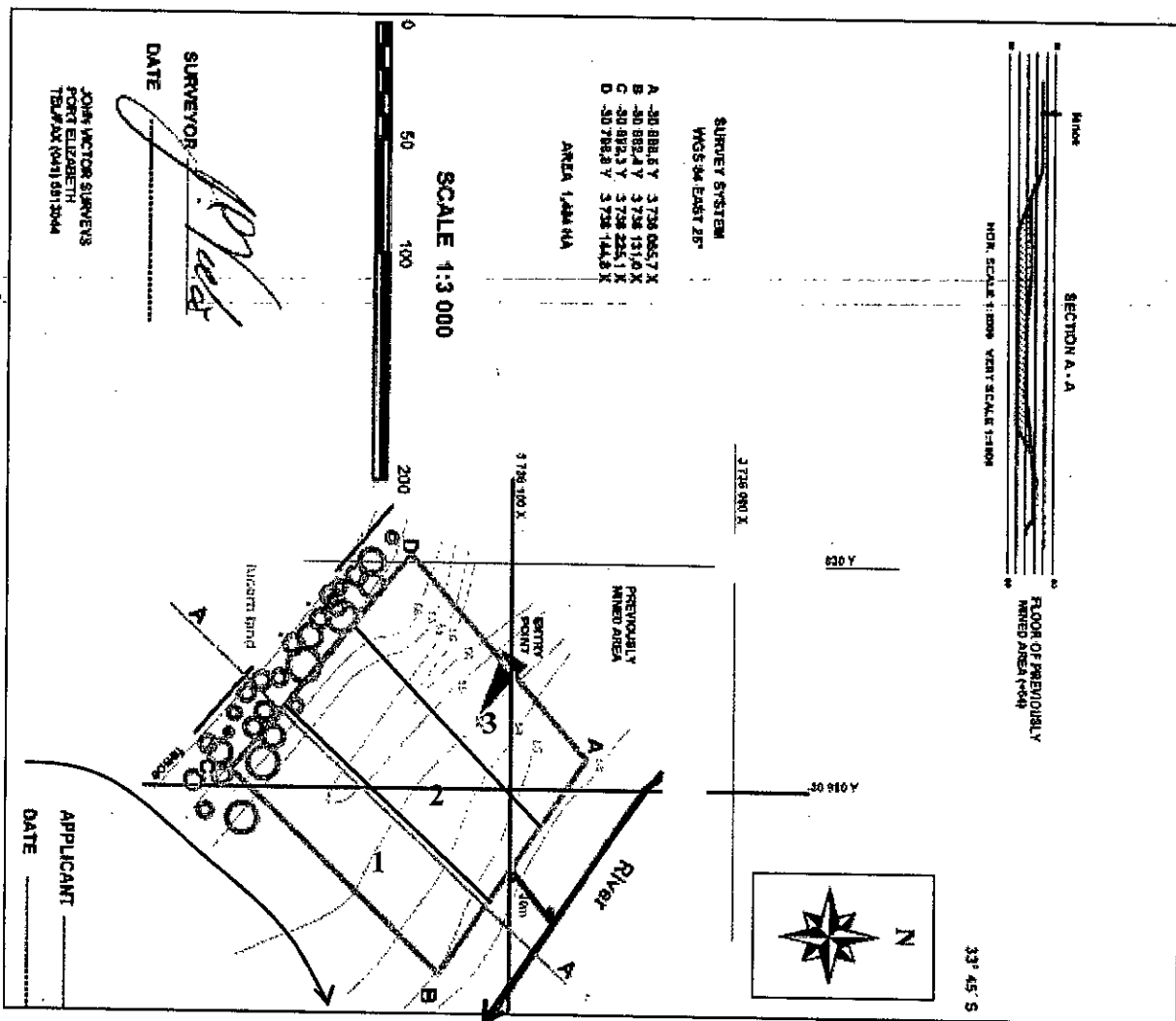
The total mine area comprises about 1,484 ha and will be mined to an average depth of 2m, just above the water table. Approximately 30 000 cubic meters (tight; 40 000 cubic meters loose) of stone and gravel will be extracted over a period of 18-24 months with the aid of an excavator and dumper trucks. Extracted material will be hauled to the off-site crushing plant of J.D. Contracting, crushed and dispatched to local markets.

Mining will be done in three phases as depict on the mine plan and will commence from the west and be extended towards the east in slots of 40m x 40m in a north-south direction. On completion of the first phase, rehabilitation of this phase will coincide with the development of the second phase by backfilling with any overburden material that might become available, followed by the reintroduction of topsoil to disturbed areas and seeding. The same scenario would apply to phases 2 and 3. Complete rehabilitation of phase 1 and partial rehabilitation of phase 2 will be achieved by completion of phase 3.

Mining will not affect the bank of the river as an adequate buffer zone of between 30 and 50m between the bank and the excavation will be retained in order to ensure that the mine area is not flooded during low-medium flows. High flows will inundate the area irrespective thereof whether

mining takes place or not. In each phase, the production faces will be profiled through cut & fill method to 1:3 slopes and vegetated.

Potable water would be provided by the property owner and brought to site daily by workers. The workforce would not reside on the mine, but will commute to work every day. Considering that at most three persons would be on site for short periods, no waste disposal site is required. A container with a lid would be placed within the mining area for the storage of any household waste. The sewage system will comprise a pit toilet south-west of the site, near the Lucerne lands, away from the river to prevent water pollution. No additional infrastructure will be erected on site. No dust suppression system is required as the in situ minerals are relatively moist and contains very little dust and because no processing will take place in the proposed mine area. No vehicle maintenance will be conducted on site. The proposed operation would be almost continuous depending on demand and working hours will be from 7 am to 5pm, five days a week, with cessation of activities at 1pm on Saturdays if market demand requires. An average extraction rate of 1500 cubic meters per month will be maintained.



Construction phase

No construction phase is required as the crushing plant of N D Contracting CC is already fully operational on the farm Vrede located on the northern bank of the Swartkops River, opposite the property that constitute the subject of this application. The only construction activity relevant to this



mining concern will be the removal of topsoil from the mine area and it will be positioned along the sides of each mining slot.

In addition the required toilet facilities will be provided onsite.

### Mineral processing & residue disposal

Extracted material will be loaded onto 5m<sup>3</sup> tipper trucks and hauled to the offsite plant. Screened sand and crushed stone will also be stockpiled on the Vrede property and all sales will take place from there.

Products produced at the Vrede plant include 9mm, 13mm, 19mm and 23mm stone as well as building and concrete sand.

### **Planned production rate**

Approximately 1500 cubic meters of sand and stone per month will be extracted.

### **Planned life of mine**

At the proposed production rate the life expectancy of the quarry is approximately 18-24 months.

### Health & Safety Matters

The applicant will endeavour to comply with the conditions of the Mine Health & Safety Act, Act 29 of 1996 and as a minimum will ensure the following:

- Since mining will not take place in close proximity to farm boundaries the retention of a 9m-boundary pillar will not be applicable, therefore no application to the Principle Inspector of Mines in this regard will be made.
- Work will not be performed within 100m of a road or any other infrastructure that need to be protected therefore no application to the Principle Inspector of Mines in this regard will be made.
- The required code of practice for each applicable activity will be provided on request.
- The crushing plant is located offsite therefore no specific safety considerations in this regard are required.
- There are no immediate residences therefore no social impact would be applicable. Dust and noise measurements will therefore not be conducted.
- Risk assessments, with specific reference to operating in close proximity to fluvial environments will be submitted to the Principle Inspector of Mine, if required. All mining equipment and people will be removed from the 1:100 year flood line with every rain event.
- No mining of the riverbank will be entertained to prevent impacts on agricultural land during normal flows.
- The Principle Inspector of Mines will be informed on the date on which mining commences.
- Any accidents will be reported immediately to the Principle Inspector of Mines in writing in the applicable format.
- Access to the property will be controlled by means of farm fences and gates.
- Considering the shallow nature of the mining operation and the low population density of the area, risk of injury to people will be limited.
- No public road will be used as all material will be transported on internal gravel roads within the fluvial environment to the crushing plant and therefore safety risks to road users and general public will be negligible. However, truck drivers will dispose of the required diver