

**Table 8.3 Quantum Calculation****Environmental Management**

The following costs may be incurred to comply with the requirements of section 39.

The following table indicates the calculation of the amount required for financial provision as provided by the applicant, should immediate closure and rehabilitation be required.

Removal of Sand Screen, Stone Crusher and Stone Screens	1	R	5,000.00	R	5,000.00
Breaking up and removal of 30m3 of concrete	1	R	2,500.00	R	2,500.00
Removal of steel container	1	R	1,100.00	R	1,100.00
Establishment on site – Bulldozer, Front End Loader	1	R	4,000.00	R	4,000.00
7 Days Bull Dozer hire – preparation of site for grassing @ rate per hour	63	R	500.00	R	31,500.00
5 Days Loader hire- spreading of top soil, @ Rate per Hour	45	R	400.00	R	18,000.00
Grass Seed	1	R	5,000.00	R	5,000.00
2 Laborers 10 days planting of grass, @ rate per day	20	R	100.00	R	2,000.00
Aftercare, 1 day per week for 6 months @ Rate / day	24	R	100.00	R	2,400.00
Supervision	1	R	10,000.00	R	10,000.00
<b>SUB TOTAL</b>				R	<b>81,500.00</b>
<b>VAT</b>				R	<b>11,410.00</b>
<b>TOTAL</b>				R	<b>92,910.00</b>
<b>Current Balance of Bank Deposits</b>					
Inzulu Mining FNB 1			16/11/2007	R	40,000.00
Inzulu Mining FNB 2			16/11/2007	R	20,000.00
DO Eales Std Bank			31/12/2007	R	90,000.00
<b>Total</b>				R	<b>150,000.00</b>
<b>Excess - (Shortfall)</b>				R	<b>57,090.00</b>

The total cost in respect of Financial Provision therefore amounts to approximately R150,000-00 in Year 1, and although this amount is already available as a guarantee, it is reflected as a direct cost in the cash flow forecast.

**PART 3**

**Chapter 9 – Capacity to Manage and Rehabilitate the Environment:**

*MPRDA Section 37 (2)*

*MPRDA Section 39 (3) (d)*

*MPRDA Section 39 (4) (a) (iii)*

*MPRDA Section 39 (5)*

*MPRDA Regulation 11 (1) (g) (iv)*

**9.1 Mitigation Measures for Impacts Identified in Chapter 3:**

The following table indicates the cost, management type and frequency of each mitigation measure:

Activity:	Environmental Aspect:	Impact Significance:	Mitigation Measures:	Frequency:	Once-off Cost:	Quarterly Cost:	Annual Cost:
Topsoil Removal:	Topography:	Medium Impact	The negative impact on the topography of the mining site will be addressed during backfilling.	Continuous	R0-00	R0-00	R0-00
	Soil:	Medium Impact	The following design parameters will be taken into account when designing the topsoil stockpiles: <ul style="list-style-type: none"> <li>• Topsoil will be removed up to a depth of 300mm or the available depth.</li> <li>• The stockpiles must be constructed on the most gradual slope possible and limited to a height of no more than 2m.</li> <li>• The slope of the stockpile material must be kept as low as possible to avoid extensive erosion of the natural resource.</li> <li>• The stockpiles must be vegetated when stored for a period longer than six months.</li> <li>• If erosion does occur the stockpiles can be stabilized through re-vegetation with pioneering grass species. Species include <i>Eragrostis curvula</i> and <i>Melinis repens</i>.</li> <li>• Soil fertility need to be assessed and ameliorated where necessary prior to re-vegetation in order to ensure optimal growth.</li> </ul>	When required	R0-00	R10,000-00	R40,000-00
	Flora:	Medium Impact	Spreading topsoil over the disturbed areas during the closure phase, and then seeding the areas with an endemic seed mixture address the impact on vegetation. It is recommended that six monthly monitoring sessions be undertaken after the topsoil was restored to assess the success of the re-vegetation. During these monitoring sessions additional measures such as fertilisation can be implemented if necessary.	When required	R0-00	R0-00	R0-00
	Fauna:	Low Impact	After the rehabilitation of the mining area and successful re-vegetation, the displaced animal life will return in the time to come. It is however recommended that the mine manager needs to make it clear to labourers not to hunt or trap the local fauna especially the smaller mammals.	Continues	R0-00	R0-00	R0-00
	Surface Hydrology:	Medium Impact	The regulations promulgated in Government Notice No 704 of 4 June 1999, in terms of the NWA (the National Water Act, (Act No. 36 of 1998)) shall apply to the water management and pollution control at	Continues	R0-00	R2,000-00	R8,000-00

		the mine. The mine will make use of beams and other structures surrounding the mine areas to ensure that clean and dirty water are separated. At any time if it is identified that soil erosion is the result of storm water run-off, the mine will rectify the erosion and implement measures to ensure that erosion does not re-occur.					
Air Quality:	Low Impact	<p>The following steps will be taken:</p> <ul style="list-style-type: none"> <li>• A sprinkler system will be used. Water will be drawn from the holding dam on the existing mining area. The said holding dam is fed by water drawn from the Amanzi farm dam. The water will from there be pumped into the sprinkler system.</li> <li>• Periodic watering of the access roads will be conducted if and when required, especially in August and September before the raining season commence.</li> <li>• Speed limits will be instated within the boundaries of the site to minimize the dust impact as a result of heavy trucks.</li> <li>• If dust levels on site are significantly impacted on and the dust level rise above 10mg/m<sup>3</sup> dust masks must be made available to workers.</li> </ul>	Daily	R0-00	R8,000-00	R32,000-00	
Noise:	Low Impact	All machinery will be kept in good working order, to ensure that no unwanted noise is generated. Noisy vehicles or machinery will be repaired immediately to dampen noise levels on site.	Quarterly	R0-00	R5,000-00	R20,000-00	
Excavating:	Geology:	Medium Impact	The mine will be committed to optimise the use of the mined mineral in order to ensure no resources are wasted. No other management measures will be possible.	Continues	R0-00	R0-00	R0-00
	Topography:	Medium Impact	The negative impact on the topography of the mining site will be addressed during backfilling.	Continuous	R0-00	R0-00	R0-00
	Soil:	Medium Impact	The impacts of excavating soil will be addressed during the Replacing Topsoil activities.	When required	R0-00	R0-00	R0-00
	Surface Hydrology:	Medium Impact	The regulations promulgated in Government Notice No 704 of 4 June 1999, in terms of the NWA (the	Continuous	R0-00	R0-00	R0-00

		National Water Act, (Act No. 36 of 1998)) shall apply to the water management and pollution control at the mine. The mine will make use of beams and other structures surrounding the mine areas to ensure that clean and dirty water are separated. At any time if it is identified that soil erosion is the result of storm water run-off, the mine will rectify the erosion and implement measures to ensure that erosion does not re-occur.					
	Air Quality	Low Impact	<p>The following steps will be taken:</p> <ul style="list-style-type: none"> <li>• A sprinkler system will be used. Water will be drawn from the holding dam on the existing mining area. The said holding dam is fed by water drawn from the Amanzi farm dam. The water will from there be pumped into the sprinkler system.</li> <li>• Periodic watering of the access roads will be conducted if and when required, especially in August and September before the raining season commence.</li> <li>• Speed limits will be instated within the boundaries of the site to minimize the dust impact as a result of heavy trucks.</li> <li>• If dust levels on site are significantly impacted on and the dust level rise above 10mg/m<sup>3</sup> dust masks must be made available to workers.</li> </ul>	Daily	R0-00	Provide for above	Provide for above
	Noise	Low Impact	All machinery will be kept in good working order, to ensure that no unwanted noise is generated. Noisy vehicles or machinery will be repaired immediately to dampen noise levels on site.	Quarterly	R0-00	Provide for above	Provide for above
Hauling:	Air Quality	Low Impact	<p>The following steps will be taken:</p> <ul style="list-style-type: none"> <li>• A sprinkler system will be used. Water will be drawn from the holding dam on the existing mining area. The said holding dam is fed by water drawn from the Amanzi farm dam. The water will from there be pumped into the sprinkler system.</li> <li>• Periodic watering of the access roads will be conducted if and when required,</li> </ul>	Daily	R0-00	Provide for above	Provide for above

			<p>especially in August and September before the raining season commence.</p> <ul style="list-style-type: none"> <li>• Speed limits will be instated within the boundaries of the site to minimize the dust impact as a result of heavy trucks.</li> <li>• If dust levels on site are significantly impacted on and the dust level rise above 10mg/m<sup>3</sup> dust masks must be made available to workers.</li> </ul>				
	<b>Noise</b>	<b>Low Impact</b>	<p>All machinery will be kept in good working order, to ensure that no unwanted noise is generated. Noisy vehicles or machinery will be repaired immediately to dampen noise levels on site.</p>	<b>Quarterly</b>	<b>R0-00</b>	<b>Provide for above</b>	<b>Provide for above</b>
Replacing Topsoil:	<b>Topography</b>	<b>Medium Impact</b>	<p>The negative impact on the topography of the mining site will be negated once all the stockpiled material is removed to the processing plants or backfilling into the quarry pit.</p>	<b>During closure phase</b>	<b>R20,000-00</b>	<b>R0-00</b>	<b>R0-00</b>
	<b>Surface Hydrology:</b>	<b>Medium Impact</b>	<p>The regulations promulgated in Government Notice No 704 of 4 June 1999, in terms of the NWA (the National Water Act, (Act No. 36 of 1998)) shall apply to the water management and pollution control at the mine. The mine will make use of beams and other structures surrounding the mine areas to ensure that clean and dirty water are separated. At any time if it is identified that soil erosion is the result of storm water run-off, the mine will rectify the erosion and implement measures to ensure that erosion does not re-occur.</p>	<b>Continuous</b>	<b>R0-00</b>	<b>R2,000-00</b>	<b>R8,000-00</b>
	<b>Air Quality</b>	<b>Low Impact</b>	<p>The following steps will be taken:</p> <ul style="list-style-type: none"> <li>• A sprinkler system will be used. Water will be drawn from the holding dam on the existing mining area. The said holding dam is fed by water drawn from the Amanzi farm dam. The water will from there be pumped into the sprinkler system.</li> <li>• Periodic watering of the access roads will be conducted if and when required, especially in August and September before the raining season commence.</li> <li>• Speed limits will be instated within the boundaries of the site to minimize the</li> </ul>	<b>Daily</b>	<b>R0-00</b>	<b>Provide for above</b>	<b>Provide for above</b>

			dust impact as a result of heavy trucks. <ul style="list-style-type: none"> <li>If dust levels on site are significantly impacted on and the dust level rise above 10mg/m<sup>3</sup> dust masks must be made available to workers.</li> </ul>				
	Noise	Low Impact	All machinery will be kept in good working order, to ensure that no unwanted noise is generated. Noisy vehicles or machinery will be repaired immediately to dampen noise levels on site.	Quarterly	R0-00	Provide for above	Provide for above
Dust Suppression:	Noise	Low Impact	All machinery will be kept in good working order, to ensure that no unwanted noise is generated. Noisy vehicles or machinery will be repaired immediately to dampen noise levels on site.	Quarterly	R0-00	Provide for above	Provide for above
<b>TOTAL:</b>					R20,000-00	R27,500-00	R108,000-00

**9.2 Mitigation Measures for Impacts Identified by affected parties:**

N/A, none were identified.

**9.3 Mitigation Measures for Impacts Identified by State Departments:**

No impacts were identified by any State Departments.

**9.4 Mitigation Measures for Socio-economic Impacts:**

Due to the lack of negative impacts in this regard, no mitigation measures are required.

**9.5 Mitigation Measures for Cultural Impacts:**

Due to the lack of negative impacts in this regard, no mitigation measures are required.



**PART 4****Chapter 10 – Undertaking:***MPRDA Regulation 51 (b) (viii)*

This ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT supersedes all other previously relevant Company policies, procedures, programmes or plans.

**OBJECTIVES:**

The objectives of this ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT are:

- To provide measures for effective and optimal mining and disposal of state or privately owned minerals as envisaged in the Minerals and Petroleum Resources Development Act (28/2002) and the Regulations;
- To provide measures for effective management of potential impacts, as well as measures to ensure that impacts on the biophysical, socio-economical, and cultural environments are kept to a minimum.
- To provide proof of financial provision for rehabilitation;
- To ensure the effective concurrent ongoing rehabilitation.
  
- We, Phillip Fitzpatrick Niven and Gavin Eales, the undersigned and duly authorised thereto by Inzulu Mining Co (Pty) Ltd and Sunshine Coast Crushers CC, respectively, undertake to”
- Actively ensure the adherence to the provisions of this ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT;
- Ensure the contents and requirements of this ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT are communicated to employees, where required;
- Promote a safe, effective and environmentally healthy operation;
- Regularly monitor the implementation of the Programme;
- Submit the prescribed reports to the relevant authorities.

Signed at Port Elizabeth on this 1 day of October 2009.

Signature of responsible person: .....  .....

Designation: Director of Inzulu Mining Co (Pty) Ltd

Signature of responsible person: .....  .....

Designation: Member of Sunshine Coast Crushers CC

## ENVIRONMENTAL MANAGEMENT PROGRAMME

***SUBMITTED IN SUPPORT OF AN APPLICATION FOR A MINING RIGHT IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE.***



### ANNEXURE A

# ENVIRONMENTAL MANAGEMENT PROGRAMME

**SUBMITTED IN SUPPORT OF AN APPLICATION FOR A MINING RIGHT IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE.**



## MAP 1 – LOCALITY PLAN

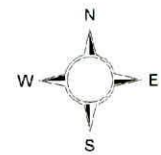
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# **ENVIRONMENTAL MANAGEMENT PROGRAMME**

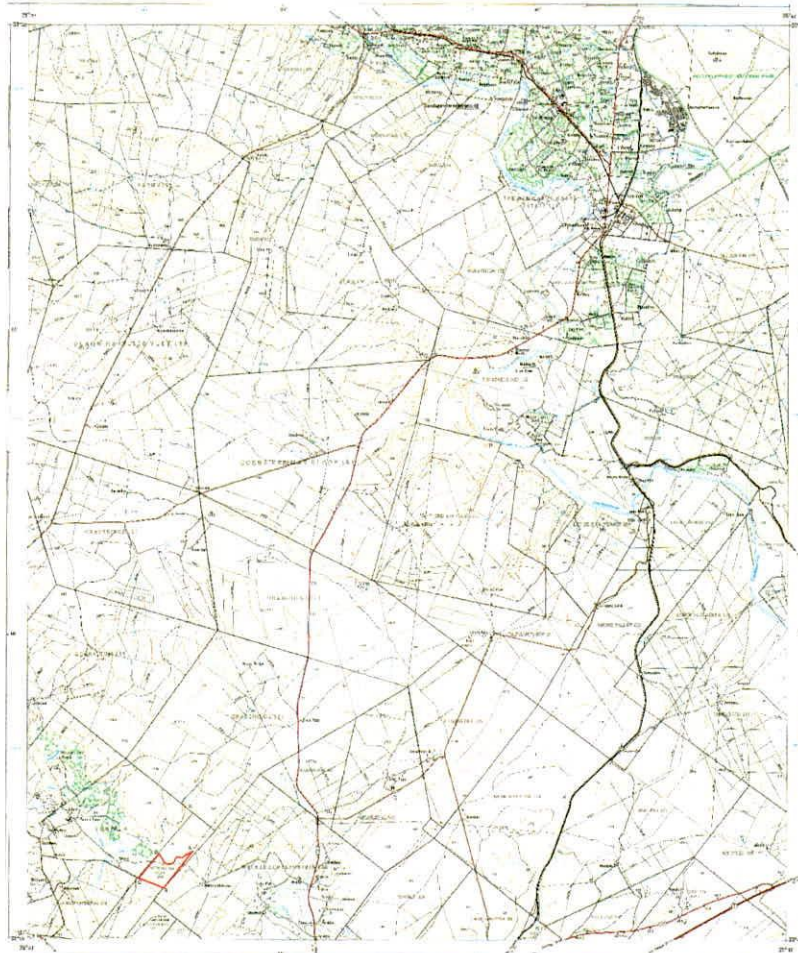
***SUBMITTED IN SUPPORT OF AN APPLICATION FOR A MINING RIGHT IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE.***



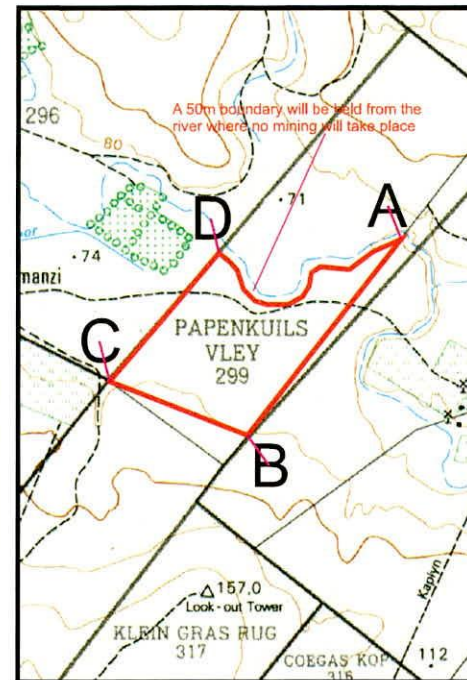
**MAP 2 – REGULATION 2(2) PLAN**



1:50 000



Enlargement of the application area:



- A: Co-ordinate=33°43'34.31"S/25°33'14.99"E
- B: Co-ordinate=33°44'09.62"S/25°32'42.19"E
- C: Co-ordinate=33°44'02.41"S/25°32'09.25"E
- D: Co-ordinate=33°43'35.48"S/25°32'34.41"E

REFERENCE :1

National Freeway; National Route	
Arterial Route	
Main Road	
Secondary Road; Bench Mark	
Other Road; Bridge	
Track and Hiking Trail	
Railway; Station or Siding	
Other Railway; Tunnel	
Embankment; Cutting	
Power Line	
Built-up Area	
Buildings; Ruin	
Post Office; Police Station; Store	
Place of Worship; School; Hotel	
Fence; Wall	
Windpump; Monument	
Communication Tower	
Mine Dump; Excavation	
Trigonometrical Station; Marine Beacon	
Lighthouse and Marine Light	
Cemetery; Grave	

REFERENCE :2

International Boundary and Beacon	
Provincial Boundary	
Game, Nature Reserve & State Forest Boundary	
Perennial River	
Perennial Water	
Non-perennial River	
Non-perennial Water	
Dry Water Course	
Dry Pan	
Marsh and Vlei	
Pipeline (above ground)	
Water Tower; Reservoir; Water Point	
Coastal Rocks	
Prominent Rock Outcrop	
Erosion; Sand	
Woodland	
Cultivated Land	
Orchard or Vineyard	
Recreation Ground	
Row of Trees	

Description:

The figure A,B,C,D, middle of Couga river, A, represents the mining area in extent of 82.995 ha, namely a portion of the farm Papenkuils Vley 299, Magisterial District of Uitenhage, relating to an new application for a mining right in terms of section 22 of the MPRDA, for Sand and Stone.

Signed:	
Date:	
Approved:	
Date:	

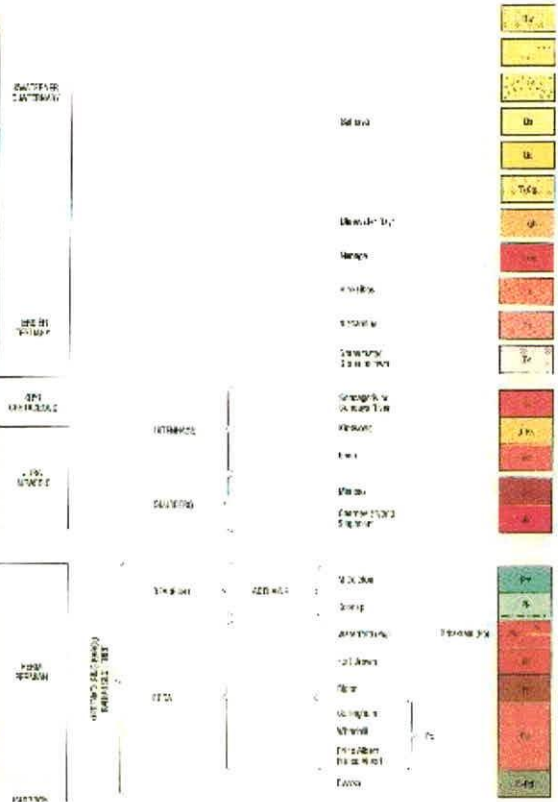
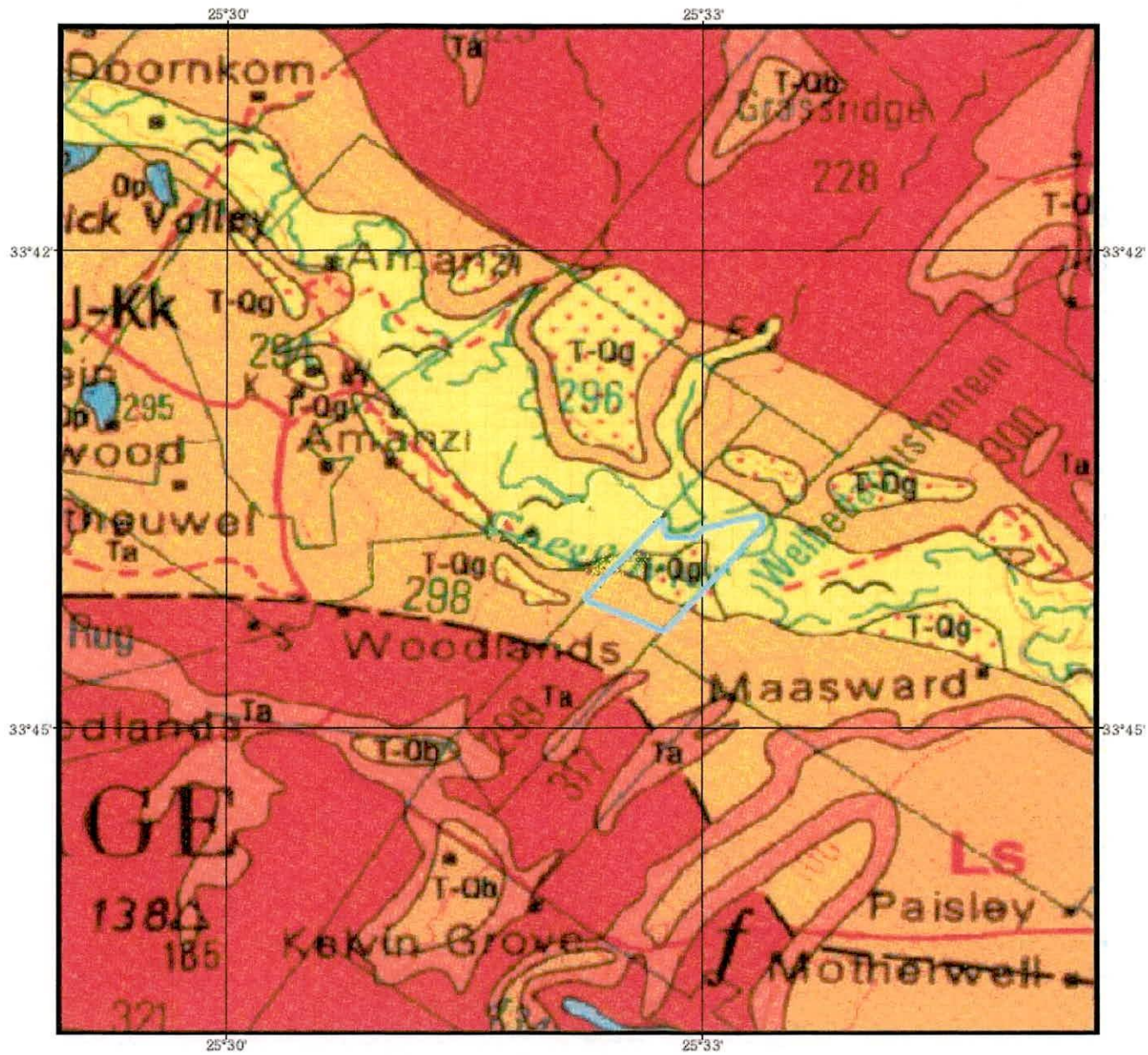
# ENVIRONMENTAL MANAGEMENT PROGRAMME

***SUBMITTED IN SUPPORT OF AN APPLICATION FOR A MINING RIGHT IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE.***



## MAP 3 – GEOLOGY PLAN

**Geology Plan**  
**Inzulu Mining Co (Pty) Ltd**  
**Reg No. 2003/010519/07**



# ENVIRONMENTAL MANAGEMENT PROGRAMME

***SUBMITTED IN SUPPORT OF AN APPLICATION FOR A MINING RIGHT IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE.***

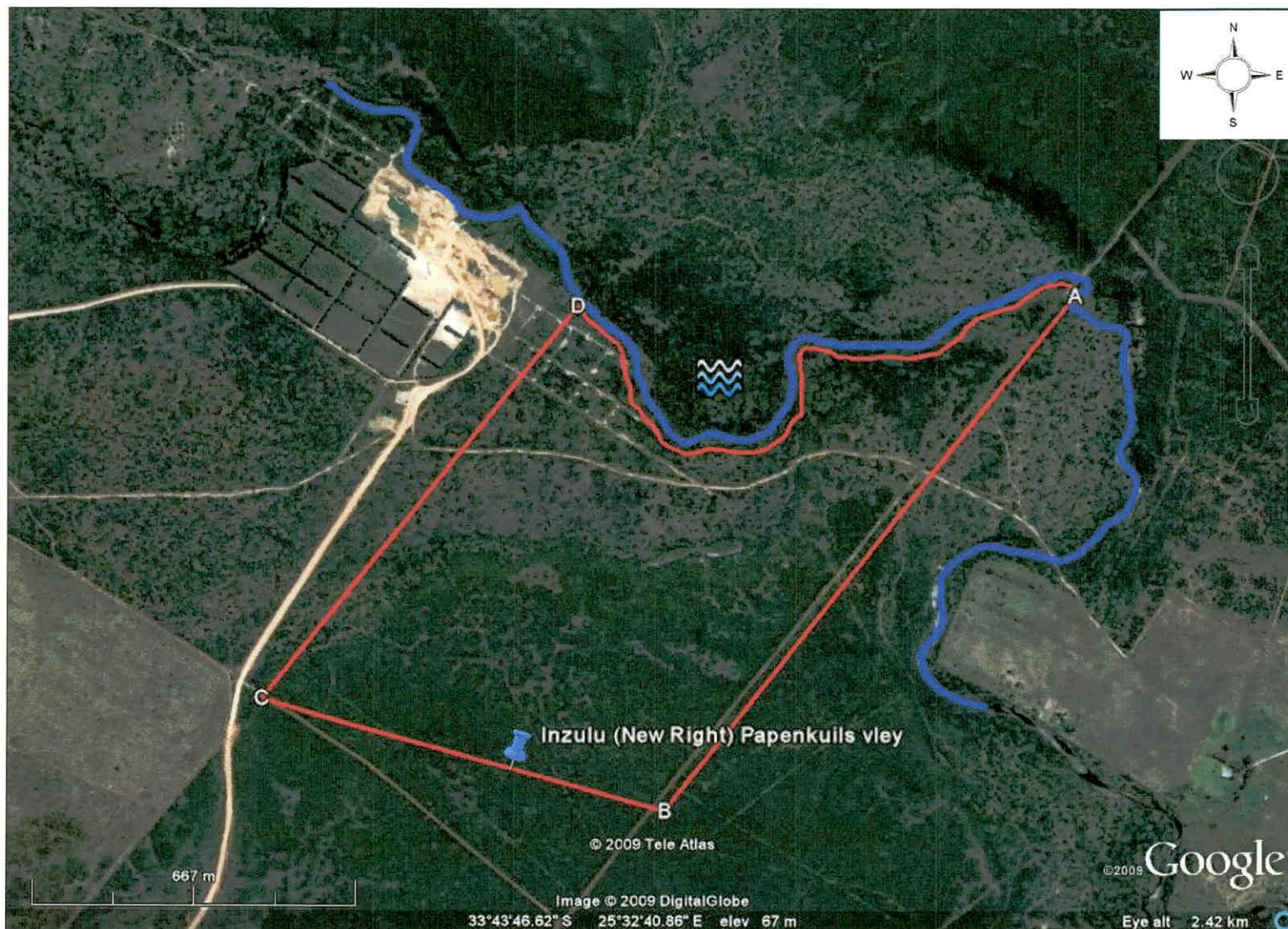


**MAP 4 – HYDROLOGY PLAN**



# Hydrology Plan:

INZULU MINING CO (PTY)LTD CO REG NO 2003/010519/07



## Co-ordinates of the mining area:

A: Co-ordinate=33°43'34.31"S/25°33'14.99"E

B: Co-ordinate=33°44'09.62"S/25°32'42.19"E

C: Co-ordinate=33°44'02.41"S/25°32'09.25"E

D: Co-ordinate=33°43'35.48"S/25°32'34.41"E

D-A: Following the river.



-River



-River flow



-Mine area

## Description:

The figure A,B,C,D,A represents the mining area, namely a portion of the farm Papenkuils Vley 299, Magisterial District of Uitenhage, relating to an new application for a mining right in terms of section 22 of the MPRDA, for Sand.

# ENVIRONMENTAL MANAGEMENT PROGRAMME

***SUBMITTED IN SUPPORT OF AN APPLICATION FOR A MINING RIGHT IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE.***



**ANNEXURE B**



## NOTICE OF PROPOSED MINING ACTIVITIES

DME File Ref No: EC 30/5/1/2/2/0211 MR

*Notice is hereby given of the intention to undertake sand and stone mining activities in terms of Section 22 of the Mineral and Petroleum Resources Development Act 28 of 2002 on a portion of the farm Papenkuils Vley 299 in the Uitenhage Magisterial District:*

### Inzulu Mining Co (Pty) Ltd

All interested and affected parties are hereby notified to register as an interested or affected party by contacting the appointed consultant through fax or e-mail. Please include your contact details and any concerns, objections or support for the project together with an indication as to why you are either affected or interested.

Future mining Consultants

- [futuremining@gmail.com](mailto:futuremining@gmail.com)
- Fax: 086 691 2411

Please note that the closing date for receiving your registration, comments, concerns and objections is 31 May 2009.

For any further enquiries please contact the consultant (André Richter 083 5757671)

**Gavin Eales**

---

**From:** Desmond Eales [desmond@glendoresand.co.za]  
**Sent:** 19 August 2009 03:15 PM  
**To:** Andre Richter  
**Cc:** inzuluminig@gmail.com  
**Subject:** Contact details - Amanzi

Good afternoon Andre

The adjacent landowner details for the Amanzi application for the 2<sup>nd</sup> phase are as follows:

Mr. Heine Stumpke, Aalwynhoek, P.O.Box 442, Uitenhage 6232

PPC Cement, Attention: Mr. Kerneels Grundlingh, Private Bag X2016, North End, Port Elizabeth, 6056

Mr. Grant Ranger, 34 Constitution Road, Uitenhage. 6230

Nu Way Housing Development, Coega Project, Attention: Mr. Jordan Mann, P.O.Box 650, Randburg 2125

Dubula Properties, 81 Brighton Drive, Summerstrand, Port Elizabeth 6001

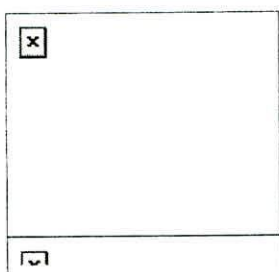
Kings Crest Housing Development, 81 Brighton Drive, Summerstrand, Port Elizabeth 6001

As you know, these need to be sent off as a matter of urgency as the EMP has to be in by 1 October 2009. Please advise if you will attend to this or if you wish us to send the letters, please e-mail a copy of the letter so that we can post tomorrow.

Regards

**Desmond Eales**

Managing Director  
Glendore Group  
Tel: (041) 366 1917  
Fax: (041) 366 1193  
Direct Fax: 086 545 5804  
Cell: 082 555 2458





PO Box 650, Randburg 2125  
Block A, 367 Surrey Ave.  
Ferndale, Randburg  
Tel: (011) 789-3334  
Fax: (011) 886-2801  
Toll Free: 0800 118 982  
E-mail: info@nuway.co.za  
Website: www.nuway.co.za

25 September 2009

AS Richter trading as FUTURE MINING CONSULTANTS  
PO Box 53287  
WIERDA PARK  
0149

ATT: Mr. André Richter  
CELL: 083 575 7671  
FAX: 086 691 2411

RE: NOTICE OF APPLICATION FOR A MINING RIGHT FOR SAND AND STONE IN  
TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES  
DEVELOPMENT ACT, 2002 (ACT 28 OF 2002) ON PORTION OF THE FARM  
PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU  
MINING CO (PTY) LTD

DME Ref# EC30/5/1/2/2/0211 MR

Good day Sir,

We would like to raise our concerns and objection regarding the biodiversity aspects of the proposed mining area.  
Herewith a biodiversity study concluded by our Environmental Scientist, Warrick Stewart from SRK Consulting, Port Elizabeth.

The following biodiversity issues are of importance regarding the proposed site for mining within Papenkuils Vley 299:

1. The entire property is in a natural state;
2. The systematic *Final Conservation Assessment and Plan for Nelson Mandela Bay (SRK Consulting, 2009)* was updated during 2007/8 and finalised in 2009. In terms of this plan, the northern part of the site has been identified as a Critical Biodiversity Area (see Figure 1 below) and part of the NMBM's Conservation Network.

Directors: L. Nyembe (Chairman), C. Constantinides (Managing Director), X. Demetriades, H.T.C. Leleu, D. Constantinides, A. Bhayat, S. Moseneke  
Company Secretary: L.C. Serfontein

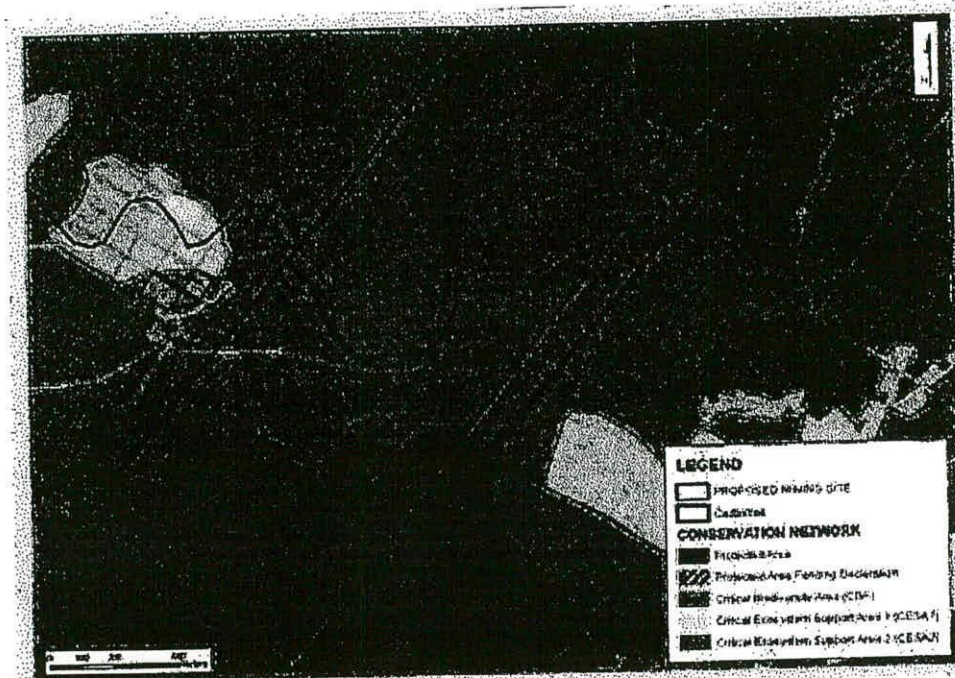


Figure 1: Proposed mining site and the location of Critical Biodiversity Areas (CBAs).

This network extends between 200 and 320 m south of the Coega River on the property. Furthermore, the guidelines for Critical Biodiversity Areas are as follows:

- No further loss of natural habitat should occur i.e. all land in this category should be maintained as natural vegetation cover.
- These areas of land can act as possible offset receiving areas.
- Mimic or maintain natural ecological processes; for example fire in Fynbos, Grassland and Dune Thicket vegetation types.
- Prioritise these areas for land care projects, WfW, Working for Wetlands and NGOs to direct their conservation projects, programmes and activities;
- An Environmental Management Plan should be compiled, where possible, to include, e.g. alien plant control, fire management etc.;
- CBAs not formally protected (public or private) should be rezoned to POS 3, declared as a protected areas in terms of NEM: Protected Areas Act and incorporated into the protected area network through a Conservation Agreement with the NMBM. Title deed restrictions must be attached to these. Rates rebates may be available in return.;
- Degraded or disturbed CBAs will require restoration or rehabilitation through programmes such as Working for Water, Working for Wetlands;
- Rezoning of properties to afford additional land use rights should not be granted;
- Developments should be limited to existing developed/degraded footprints, if present;
- Permitted number of units per erf or per ha to be based on existing land use rights. However, a maximum of 2 dwelling units per erf permitted at a combined maximum footprint of 1 500m<sup>2</sup>;
- Units carefully dispersed or clumped to achieve least impact, particularly with regard to habitat loss and fragmentation;
- The following minimum buffers are recommended between CBAs and proposed development nodes
  - Forest: outside urban edge: minimum of 100m, urban areas minimum of 30m; and
  - Other biomes: minimum of 50m;
- The installation of infrastructure in CBAs is not desirable and should only be considered if all alternative alignment and design options have been assessed and found to be non-viable. Under such conditions, a Basic Assessment should be undertaken, and if approved a comprehensive EMP must be developed and best-practice restoration efforts strictly implemented;

- Green Architecture & Technology, e.g. Enviro-loos, solar panels, water & energy saving devices, rainfall harvesting;
  - Specialist Ecologist to conduct the environmental assessment, in consultation with DEDEA, NMBM, and DWAF;
  - Where infrastructure is within close proximity to aquatic ecosystems refer to 'CBA – Aquatic Ecosystems' below to ensure appropriate buffers :
    - The Target Water Quality Range (TWQR) (range of concentrations or levels) should ensure that no measurable adverse effects are expected on the health of aquatic ecosystems, and should therefore ensure their protection.
    - A precautionary approach is required to protect the health of aquatic ecosystems, which means that active measures are taken to avert or minimise potential risks of undesirable impacts on the environment. Do not permit infilling, excavation, drainage, hardened surfaces (including buildings and asphalt), intensive agriculture or any new developments within a river, wetland or estuary, their buffers, the 1:100 year floodline or highest flood line of the delineated edge, whichever is the greatest.
3. The southern and central part of the property is also in a natural state, but does not fall within the NMBM's conservation network. However, a minimum of a 50 m conservation buffer should be maintained south of the CBA corridor. The *NMBM Conservation Plan* guidelines also state that "For vegetation types outside of CBAs and CESAs 1 and 2, development should be subject to biodiversity offsets if the impact of habitat loss is of a medium significance or greater in the following ratios:
- Endangered Areas should be subject to an offset ratio of 20:1.
  - Vulnerable Areas should be subject to an offset ratio of 10:1.
  - Least Threatened Areas is not subject to offset investigation or offset ratios".
4. It is therefore requested that the recommendations and guidelines of the Municipal Council approved *Final Conservation Assessment and Plan for Nelson Mandela Bay (SRK Consulting, 2009)* and the Final NMBM Spatial Development Framework (2009) be complied with.

Regards




---

**JORDAN MANN**  
**DIRECTOR**

cc.                   Acting Regional Manager  
                          Eastern Cape Region  
                          Department of Minerals and Energy  
                          Private X6076  
                          Port Elizabeth  
                          1035





**CONFIRMATION OF CONSULTATION AND STATEMENT BY AFFECTED PARTY (FOR INCLOSURE IN THE ENVIRONMENTAL MANAGEMENT PROGRAMME)**

**APPLICATION FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPERKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD**

**DME REF NUMBER:** EC30/5/1/2/2/0211 MR

**AFFECTED PARTY:**

(Please indicate your title, initial(s), surname name, capacity, company, local municipality, postal address and contact number in the space provided below)

**Title, Name and Surname:**

PHILIP FITZ PATRICK NIVEN

**Capacity (for instance land owner,**

DIRECTOR. / SHAREHOLDER

**neighbour, company name, local**

AMANZI ESTATE (PTY) LTD

**municipality, etc):**

UITENHAGE NELSON MANDELA METROPOL

**Postal and/residential address:**

P.O. Box 644

UITENHAGE 6230.

041 583 6942

**Contact number:**

082 3271577



The Director: Mineral Development  
Eastern Cape Region  
Department of Minerals and Energy  
Private Bag X6076  
PORT ELIZABETH  
6000

Sir/Madam

CONFIRMATION OF CONSULTATION IN RESPECT OF APPLICATION FOR A FOR A  
MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE  
MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of  
2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL  
DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD

DME REF NUMBER: EC30/5/1/2/2/0211 MR

I, Philip Fitzpatrick Niven (ID NO 620427507088),

the undersigned and in my above capacity as an affected party, hereby confirm that one of the  
representatives of Inzulu Mining Co (Pty) Ltd personally consulted me in regard to the above  
proposed mining project and informed me in short regarding the proposed mining methods,  
access, possible impacts, rehabilitation, etc, relating to its intended mining and related activities on  
the above mining area.

I further wish to state that I have no objection to raise against the above proposal, provided that the  
provisions of all mining and related legislation/regulations be adhered to by the said applicant.

I hereby reserve all my rights as to scrutinise the Environmental Management Programme to be  
submitted to your office by the said applicant.

Yours faithfully,

Philip Niven (Signature)

P.F. NIVEN (Initials and Surname)

25th August 2009 (Date and Place)

**CONFIRMATION OF CONSULTATION AND STATEMENT BY AFFECTED PARTY (FOR INCLOSURE IN THE ENVIRONMENTAL MANAGEMENT PROGRAMME)**

**APPLICATION FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPERKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD**

**DME REF NUMBER:** EC30/5/1/2/2/0211 MR

**AFFECTED PARTY:**

(Please indicate your title, initial(s), surname name, capacity, company, local municipality, postal address and contact number in the space provided below)

**Title, Name and Surname:**

PHILIP FITZ PATRICK NIVEN.

**Capacity (for instance land owner,**

DIRECTOR / SHAREHOLDER.

**neighbour, company name, local**

KINGS CREST BASIN DEVELOPMENT.

**municipality, etc):**

**Postal and/residential address:**

81 BRIGHTON DRIVE

SUMMERSTAD

PORT ELIZABETH

**Contact number:**

6013

The Director: Mineral Development  
Eastern Cape Region  
Department of Minerals and Energy  
Private Bag X6076  
PORT ELIZABETH  
6000

Sir/Madam

**CONFIRMATION OF CONSULTATION IN RESPECT OF APPLICATION FOR A FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPERKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD**

**DME REF NUMBER: EC30/5/1/2/2/0211 MR**

I, Peter Fitzpatrick Niven (ID NO 62 04 275057),

the undersigned and in my above capacity as an affected party, hereby confirm that one of the representatives of Inzulu Mining Co (Pty) Ltd personally consulted me in regard to the above proposed mining project and informed me in short regarding the proposed mining methods, access, possible impacts, rehabilitation, etc, relating to its intended mining and related activities on the above mining area.

I further wish to state that I have no objection to raise against the above proposal, provided that the provisions of all mining and related legislation/regulations be adhered to by the said applicant.

I hereby reserve all my rights as to scrutinise the Environmental Management Programme to be submitted to your office by the said applicant.

Yours faithfully,

P.F. Niven (Signature)

P.F. NIVEN. (Initials and Surname)

2009/09/01 (Date and Place)

CONFIRMATION OF CONSULTATION AND STATEMENT BY AFFECTED PARTY (FOR INCLOSURE IN THE ENVIRONMENTAL MANAGEMENT PROGRAMME)

APPLICATION FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002). ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD

DME REF NUMBER: EC30/5/1/2/2/0211 MR

AFFECTED PARTY:

(Please indicate your title, initial(s), surname name, capacity, company, local municipality, postal address and contact number in the space provided below)

Title, Name and Surname: MR MASON CHARLES RANGER

Capacity (for instance land owner, ADJOINING LAND OWNER

neighbour, company name, local

municipality, etc):

Postal and/residential address: 34 CONSTITUTION RD

UITENHAGE

Contact number: 041 9924239

The Director: Mineral Development  
Eastern Cape Region  
Department of Minerals and Energy  
Private Bag X6076  
PORT ELIZABETH  
6000

Sir/Madam

CONFIRMATION OF CONSULTATION IN RESPECT OF APPLICATION FOR A FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPANKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD

DME REF NUMBER: EC30/5/1/2/2/0211 MR

I, MASON CHARLES RANGER (ID NO 310515018081), the undersigned and in my above capacity as an affected party, hereby confirm that one of the representatives of Inzulu Mining Co (Pty) Ltd personally consulted me in regard to the above proposed mining project and informed me in short regarding the proposed mining methods, access, possible impacts, rehabilitation, etc, relating to its intended mining and related activities on the above mining area.

I further wish to state that I have no objection to raise against the above proposal, provided that the provisions of all mining and related legislation/regulations be adhered to by the said applicant.

I hereby reserve all my rights as to scrutinise the Environmental Management Programme to be submitted to your office by the said applicant.

Yours faithfully,

M.C. Ranger (Signature)  
M.C. RANGER (Initials and Surname)  
25/08/09 Uitenhage (Date and Place)



**CONFIRMATION OF CONSULTATION AND STATEMENT BY AFFECTED PARTY (FOR INCLOSURE IN THE ENVIRONMENTAL MANAGEMENT PROGRAMME)**

**APPLICATION FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD**

**DME REF NUMBER:**

**EC30/5/1/2/2/0211 MR**

**AFFECTED PARTY:**

**(Please indicate your title, initial(s), surname name, capacity, company, local municipality, postal address and contact number in the space provided below)**

**Title, Name and Surname:**

.....Thanduzile Vusani.....

**Capacity (for instance land owner,**

.....Ward Councillor.....

**neighbour, company name, local**

.....NMMM.....

**municipality, etc):**

.....

**Postal and/residential address:**

.....32381 Mookwane Str.....

.....North Asolelo Road.....

.....Motharwell.....

**Contact number:**

.....0717540261.....

t.vusani@nmmm.gov.co.za

The Director: Mineral Development  
Eastern Cape Region  
Department of Minerals and Energy  
Private Bag X6076  
PORT ELIZABETH  
6000

Sir/Madam

**CONFIRMATION OF CONSULTATION IN RESPECT OF APPLICATION FOR A FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPERKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD**

**DME REF NUMBER: EC30/5/1/2/2/0211 MR**

I, Thanduxolo Nuzani (ID NO 6308245873009), the undersigned and in my above capacity as an affected party, hereby confirm that one of the representatives of Inzulu Mining Co (Pty) Ltd personally consulted me in regard to the above proposed mining project and informed me in short regarding the proposed mining methods, access, possible impacts, rehabilitation, etc, relating to its intended mining and related activities on the above mining area.

I further wish to state that I have no objection to raise against the above proposal, provided that the provisions of all mining and related legislation/regulations be adhered to by the said applicant.

I hereby reserve all my rights as to scrutinise the Environmental Management Programme to be submitted to your office by the said applicant.

Yours faithfully,

T.N. (Signature)

T.N. Nuzani (Initials and Surname)

26/08/09 (Date and Place)

**CONFIRMATION OF CONSULTATION AND STATEMENT BY AFFECTED PARTY (FOR INCLOSURE IN THE ENVIRONMENTAL MANAGEMENT PROGRAMME)**

**APPLICATION FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD**

**DME REF NUMBER:**

**EC30/5/1/2/2/0211 MR**

**AFFECTED PARTY:**

**(Please indicate your title, initial(s), surname name, capacity, company, local municipality, postal address and contact number in the space provided below)**

**Title, Name and Surname:**

..... *H. Stumke* .....

**Capacity (for instance land owner,**

..... *Owner* .....

**neighbour, company name, local**

.....

**municipality, etc):**

.....

**Postal and/residential address:**

..... *Box 442* .....

..... *Uitenhage* .....

..... *6230* .....

**Contact number:**

..... *072 701 9270* .....



The Director: Mineral Development  
Eastern Cape Region  
Department of Minerals and Energy  
Private Bag X6076  
PORT ELIZABETH  
6000

Sir/Madam

CONFIRMATION OF CONSULTATION IN RESPECT OF APPLICATION FOR A FOR A MINING RIGHT FOR SAND AND STONE IN TERMS OF SECTION 22 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 of 2002), ON PORTION OF THE FARM PAPENKUILS VLEY 299, MAGISTERIAL DISTRICT OF UITENHAGE: INZULU MINING CO (PTY) LTD

DME REF NUMBER: EC30/5/1/2/2/0211 MR

I, Heinrich Stumke (ID NO 6009195087080)

the undersigned and in my above capacity as an affected party, hereby confirm that one of the representatives of Inzulu Mining Co (Pty) Ltd personally consulted me in regard to the above proposed mining project and informed me in short regarding the proposed mining methods, access, possible impacts, rehabilitation, etc, relating to its intended mining and related activities on the above mining area.

I further wish to state that I have no objection to raise against the above proposal, provided that the provisions of all mining and related legislation/regulations be adhered to by the said applicant.

I hereby reserve all my rights as to scrutinise the Environmental Management Programme to be submitted to your office by the said applicant.

Yours faithfully,

.....(Signature)

.....(Initials and Surname)

.....(Date and Place)

I FAXED THIS ACKNOWLEDGMENT AND STATEMENT  
THROUGH TO MR MANN AT THE END OF AUGUST

### ACKNOWLEDGEMENT OF RECEIPT

I, the undersigned, ....., representative of Pretoria Portland  
Cement, hereby acknowledge receipt of Notification of Application for a Mining Right  
for sand and stone on Portion of the farm Papenkuils Vley 299, Magisterial district of  
Uitenhage: Inzulu Mining Co (Pty) Ltd.

Signed.....

Date.....

Nu Way Housing Development

011 789 3334.

Co JORDAN MANN.


367 SURREY AVE  
FERNDALE

PO Box 650  
Randburg  
2125

Fax 086 544 7453.

## ACKNOWLEDGEMENT OF RECEIPT

I, the undersigned, BH VENTER....., representative of Pretoria Portland Cement, hereby acknowledge receipt of Notification of Application for a Mining Right for sand and stone on Portion of the farm Papenkuils Vley 299, Magisterial district of Uitenhage: Inzulu Mining Co (Pty) Ltd.

Signed..... .....

Date..... 07/09/09.....

MR PAUL MARE

PPC SANDTON

↳ 8 2601 9448

(011) 386 - 9000



consultation notice from PPC. Elize from Nu-Housing gave me your Email address and as to obtain a **colour copy** of the map, as I am not able to interpreter same. Can you please email me same ASAP as the EMP must be in by the end of the week.

As I have to finilise the draft EMP by Monday afternoon, please forward the map to me ASAP.

Tanks

--

Andre Richter

Future Mining Consultants

Home Page:<http://sites.google.com/site/futureminingconsultants/>

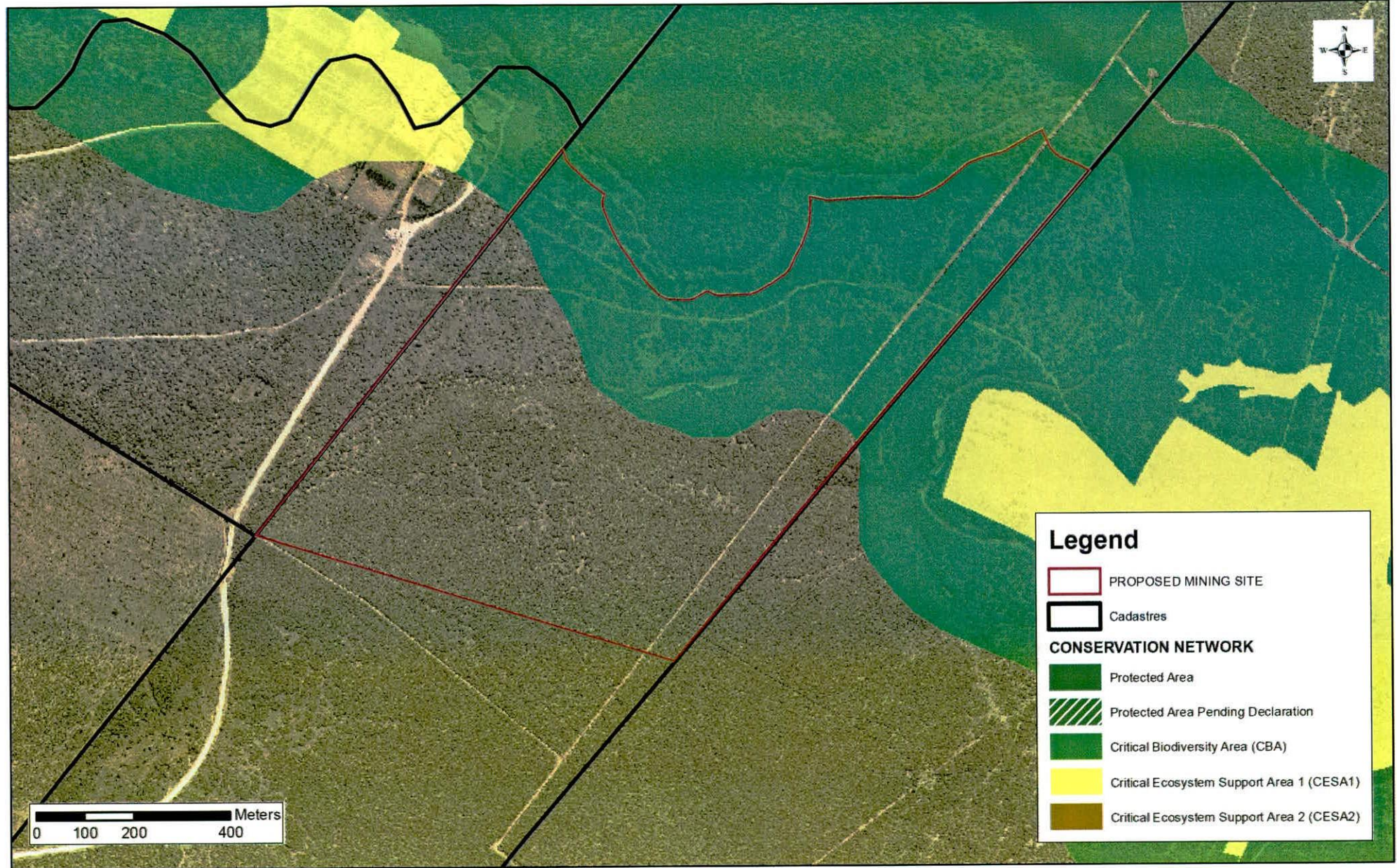
Email :[futuremining@gmail.com](mailto:futuremining@gmail.com)

Email2 :[rich08@absamail.co.za](mailto:rich08@absamail.co.za)

Cell no :083 575 7671

Fax no :086 691 2411





**Legend**

- PROPOSED MINING SITE
- Cadastres
- CONSERVATION NETWORK**
- Protected Area
- Protected Area Pending Declaration
- Critical Biodiversity Area (CBA)
- Critical Ecosystem Support Area 1 (CESA1)
- Critical Ecosystem Support Area 2 (CESA2)

Project No:	Datum:
398370	HH'94
	Projection:
	TM
	Central Meridian/Zone:
	LO25

**PROPOSED MINING SITE AND THE LOCATION OF CRITICAL BIODIVERSITY AREAS (CBAS)**

Date:	Scale:
21/09/2009	1:7,500
Compiled by:	Fig No:
STEW	001

