

CASCADE 1718

The Directors  
Cascade Avenue Trading 128 (Pty) Ltd  
P.O. Box 215  
Fourways North  
2086

25<sup>th</sup> July 2011

The Provincial Manager  
South Africa Heritage Resources Agency  
P.O. Box 3054  
Mmabatho  
2735



**CONSULTATION WITH LANDOWNER, INTERESTED AND AFFECTED PARTIES  
IN TERMS OF SECTION 16(4) OF THE MINERAL AND PETROLEUM  
RESOURCES DEVELOPMENT ACT 2002: NW 30/50/1/1/2/100184 PR**

Dear Sir/Madam,

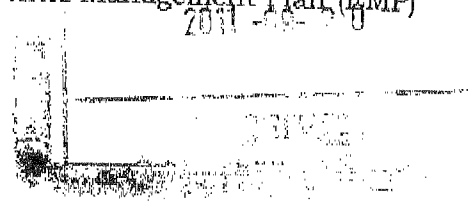
May all be well with you.

Our Company, Cascade Avenue Trading 128 (Pty) Ltd, wishes to inform you that it has received notification of acceptance from the Department of Mineral Resources (DMR) with regards to its application for prospecting rights for PGM on the following farms,

- **UITVALGROND 416 JQ PORTION 03, 21 ,23, 24, 25, 26, 27- T22563/1983,**
- **BOSCHFONTEIN 458 JQ FARM- T14286/1998, and**
- **KROKODILDRIFT 446 JQ PORTION 108- T1927/2003,** located in the Madibeng Local Municipality. This process will entail the drilling of **15 boreholes** covering an estimated prospecting area of **5626.453 hectares**, as indicated in Annexure 2, attached to this letter.

In addition, we would appreciate if you could provide any comments on the sections highlighted below, relating to potential impacts on landowners, interested and affected parties outlined in the DMR's Environmental Management Plan (EMP) as follows;

CASCADE/NW10184PR/072011



1. Regulation 52 (2): Description of the environment likely to be affected by the proposed prospecting or mining operations:

*1.1 The environment on site relative to the environment in the surrounding area*

*1.2 The specific environmental features on the site applied for which may require protection, remediation, management or avoidance;*

*1.3 Map showing the spatial location of all environmental , cultural/heritage and current land use features identified on site, and*

*1.4 Confirmation that the description of the environment has been compiled with the participation of the community, the landowner an interested parties.*

Furthermore,

2. Regulation 52(2) (b): Assessment of the potential impacts of the proposed prospecting or mining operation on the environment, socio-economic conditions and cultural heritage.

*2.2. Identification of potential impacts*

*2.2.1 Potential impacts per activity and listed activities*

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*2.2.5 Confirmation that the list of potential impacts has been compiled with the participation of the landowner and interested and affected parties,*

We would also appreciate an opportunity to meet with you, time permitting, to discuss any comments you may have on the prospecting rights.

As a landowner, or interested and or affected party, who may be affected by the drilling operations, kindly forward any comments or responses relating to any

CASCADE/NW10184PR/072011

potential environmental and or socio-economic impacts these operations may have on your property, to **Mrs N. Mokone**, on fax number **086 661 2325** within three weeks of receipt.

We wish to take this opportunity to thank you in advance for your comments.

Yours Sincerely,

*PP Mokone*  
Mr Darcy Bower

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Attachments:

- a) Annexure 1: Topographical Map of the Farm
- b) Annexure 2: Map containing locations of Boreholes
- c) Annexure 3: Map Explanation Information

CASCADE/NW10184PR/072011

**CASCADE AVENUE  
TRADING 128 (PTY) LTD**

Urvaijgrond 416,  
Boschfontein 458,  
Krookodrif 446  
Boreholes

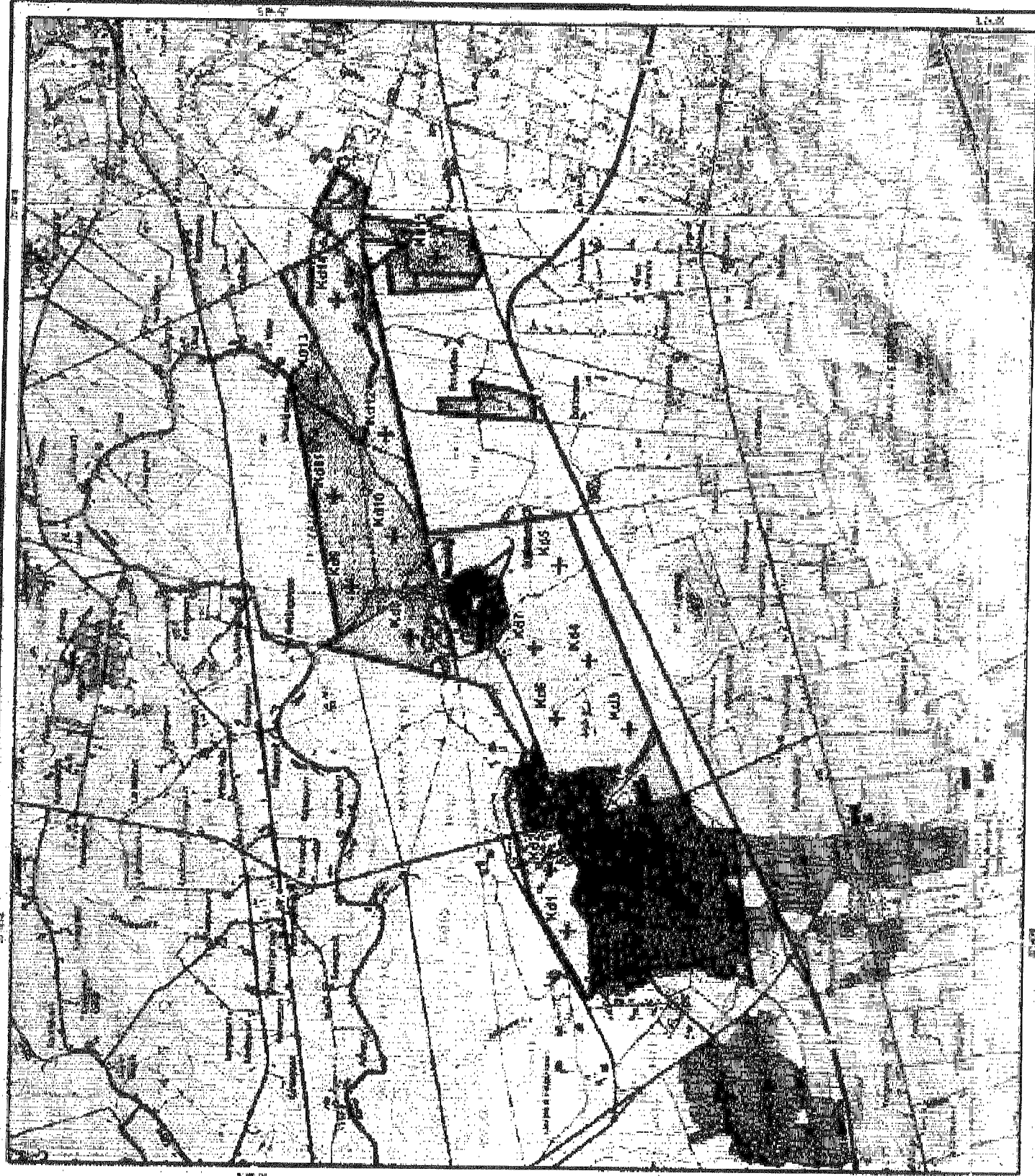
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406	11/07/2011	15/08/2011
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409	11/07/2011	15/08/2011
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414	11/07/2011	15/08/2011
415	11/07/2011	15/08/2011
416	11/07/2011	15/08/2011
417	11/07/2011	15/08/2011
418	11/07/2011	15/08/2011
419	11/07/2011	15/08/2011
420	11/07/2011	15/08/2011



Camera installed by GeoParallax  
Call 011 451 2288



THE COMPANY REPRESENTS PARTIAL  
PROPERTY INFORMATION AND NOT A FULL  
SURVEY. SEE PLAN FOR  
BOTH BOREHOLE



# REFERENCE

# VERKLARING

National Freeway; National Route.....		Nasionale Deurpad; Nasionale Roete
Arterial Route.....		Hoofverkeersroete
Main Road.....		Hoofpad
Secondary Road; Bench Mark.....		Sekondêre Pad; Hoogte merk
Other Road; Bridge.....		Ander Pad; Brug
Track and Hiking Trail.....		Dowwe Pad en Voetslaanpad
Railway; Station or Siding.....		Spoorweg; Stasie of Sylyn
Other Railway; Tunnel.....		Ander Spoorweg; Tunnel
Embankment; Cutting.....		Opvulling; Deurgrawing
Power Line.....		Kraglyn
Built-up Area (High, Low Density).....		Beboude Gebied (Hoë, Lae Digtheid)
Buildings; Ruin.....		Gebooue; Mursie
Post Office; Police Station; Store.....		Postkantoor; Polisie stasie; Winkel
Place of Worship; School; Hotel.....		Plek van Aanbidding; Skool; Hotel
Fence; Wall.....		Draëdheining; Muur
Windpump; Monument.....		Windpomp; Monument
Communication Tower.....		Kommunikasietoring
Mine Dump; Excavation.....		Mynhoop; Uitgraving
Trigonometrical Station; Marine Beacon.....		Peilbaken; Seevaartbaken
Lighthouse and Marine Light.....		Vuurtoring en Seevaartlig
Cemetery; Grave.....		Begraafplaas; Graf
International Boundary and Beacon.....		Internasionale Grens en Baken
Provincial Boundary.....		Provinsiale Grens
Protected Area.....		Bewarings Gebied
Perennial River.....		Standhoudende Rivier
Perennial Water.....		Standhoudende Water
Non-perennial River.....		Nie-standhoudende Rivier
Non-Perennial Water.....		Nie-standhoudende Water
Dry Water Course.....		Droë Loop
Dry Pan.....		Droë Pan
Marsh and Vlei.....		Moeras en Vlei
Pipeline (above ground).....		Pyplyn (bo die grond)
Water Tower; Reservoir; Water Point.....		Watertoring; Reservoir; Waterpunt
Coastal Rocks.....		Kuslynrotse
Prominent Rock Outcrop.....		Prominente Klipbank
Erosion; Sand.....		Erosie; Sand
Woodland.....		Beboste Gebied
Cultivated Land.....		Bewerkte Land
Orchard or Vineyard.....		Boord of Wingerd
Recreation Ground.....		Ontspanningsterrein
Row of Trees.....		Rye Bome

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IN TERMS OF SECTION 16(4) OF THE MINERAL AND PETROLEUM  
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Dear Sir/Madam ,

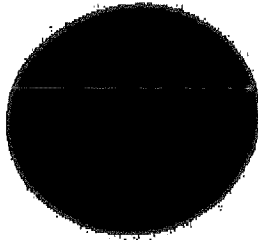
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- **(1) KROONDAL 304 JQ PORTION 96, T5563/2001;**
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- **RIETFontein 338 JQ PORTION 28 T34529/2001**
- **RIETFonteyn 338 JQ PORTION 5 T2849/1987,** located in the Rustenburg Local Municipality. This process will entail the drilling of **15 boreholes** covering an estimated prospecting area of **326.7353 hectares**, as indicated in Annexure 2, attached to this letter.

In addition, we would appreciate if you could provide any comments on the sections highlighted below, relating to potential impacts on landowners, interested

CASCADE/NW10183PR/072011



**SOUTH AFRICAN HERITAGE  
RESOURCES AGENCY**

Cur Tillard & Warren Street Eastleigh Mansions Office No 8 MAPIKENG 2745  
P.O. Box 3034 MMABATHO 2735  
Tel: (018) 381 2032 / 3970 Fax: (018) 381 6953

OUR REF:.....

YOUR REF:.....

DATE: 22-9-11.....

**FACSIMILE TRANSMISSION - FAKSIMILE VERSENDING**

TO/VAN: COMETTE.....

CC:.....

FAX NO. /FAKSE NOMMER: 021 462 4509.....

FROM/VAN: SURANZ.....

MESSAGE/BOODSKAP 2x CASCADE AVE FRANKING  
GEO ROCC Application Paspo Lights Fran Lookup  
" " " " " " " DANOSKUL  
" " " " " " " Tweelagte

PLEASE ASSIST  
K2M ENV App ENV AUTO Fran VYFROCK PATCH  
MARGEN Newslett MMABATHO - MENYPT TRANSMISSION Int Projol

Thanking You

Have a nice day

SENDER: 

NO OF PAGES INCL COVER PAGE 34  
AANTAL BLADSYE

PLEASE INFORM US IF THE FAX IS INCOMPLETE OR UNCLEAR  
SKAKEL ONSE AANWYSE INDIEN HIERDIE BOODSKAP ONDUDELIK IS

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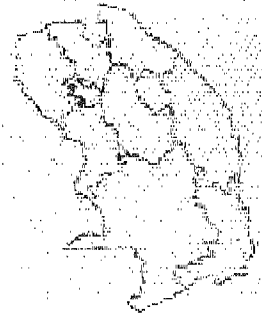
VERKLARING

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Boschfontein 458,  
Kroonstad 448  
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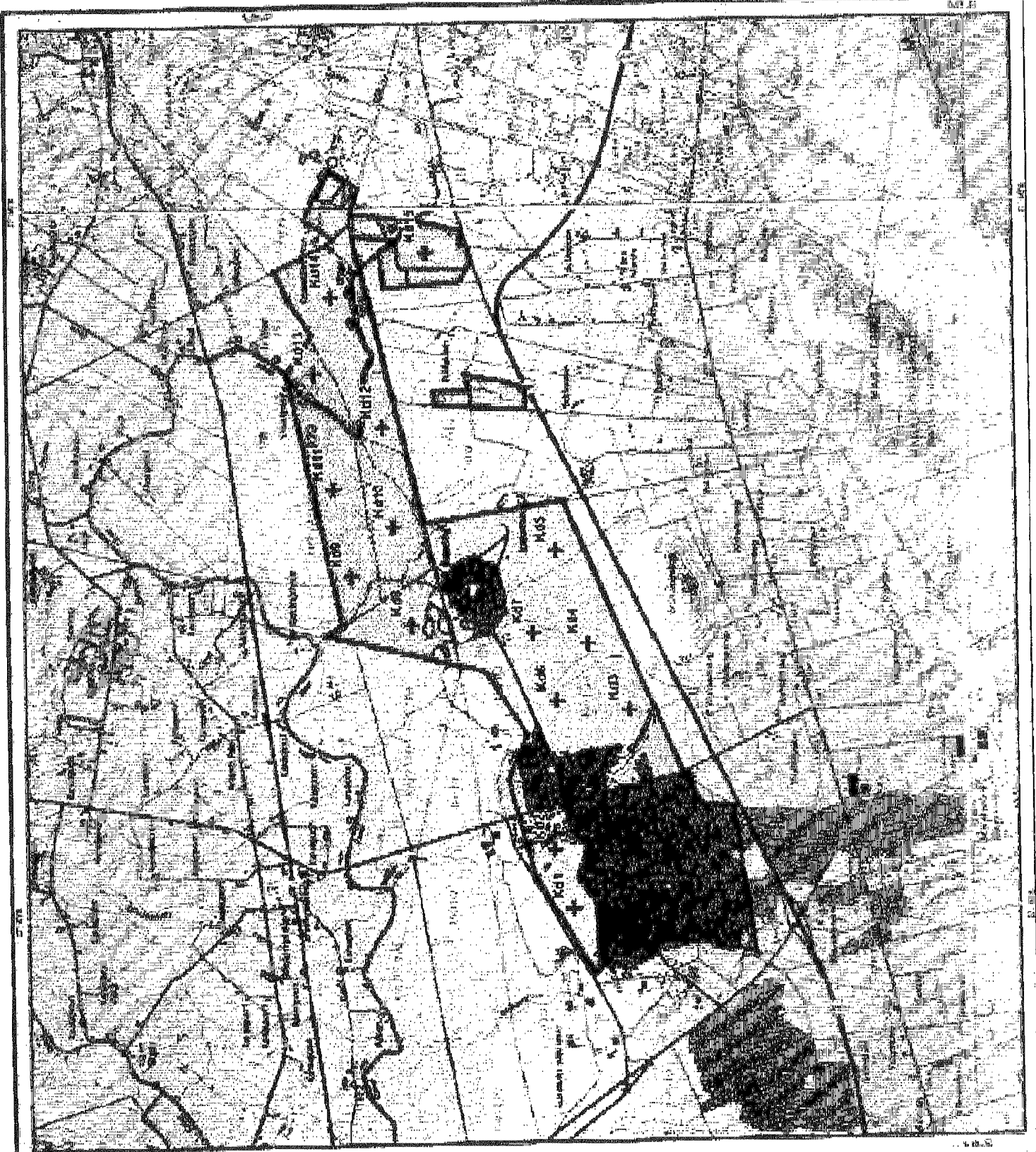
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488	17 08 15 00	25 00 00 00
489	17 08 16 00	25 00 00 00
490	17 08 17 00	25 00 00 00
491	17 08 18 00	25 00 00 00
492	17 08 19 00	25 00 00 00
493	17 08 20 00	25 00 00 00
494	17 08 21 00	25 00 00 00
495	17 08 22 00	25 00 00 00
496	17 08 23 00	25 00 00 00
497	17 08 24 00	25 00 00 00
498	17 08 25 00	25 00 00 00
499	17 08 26 00	25 00 00 00
500	17 08 27 00	25 00 00 00
501	17 08 28 00	25 00 00 00
502	17 08 29 00	25 00 00 00
503	17 08 30 00	25 00 00 00



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- a) Annexure 1: Topographical Map of the Farm
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CASCADE/NW10184PR/072011

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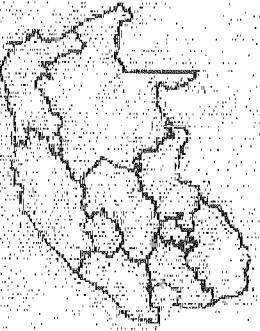
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**CASCADE AVENUE  
TRADING 128 (PTY) LTD**

**KROONDAL 304  
RIETFontein 338  
Boreholes**

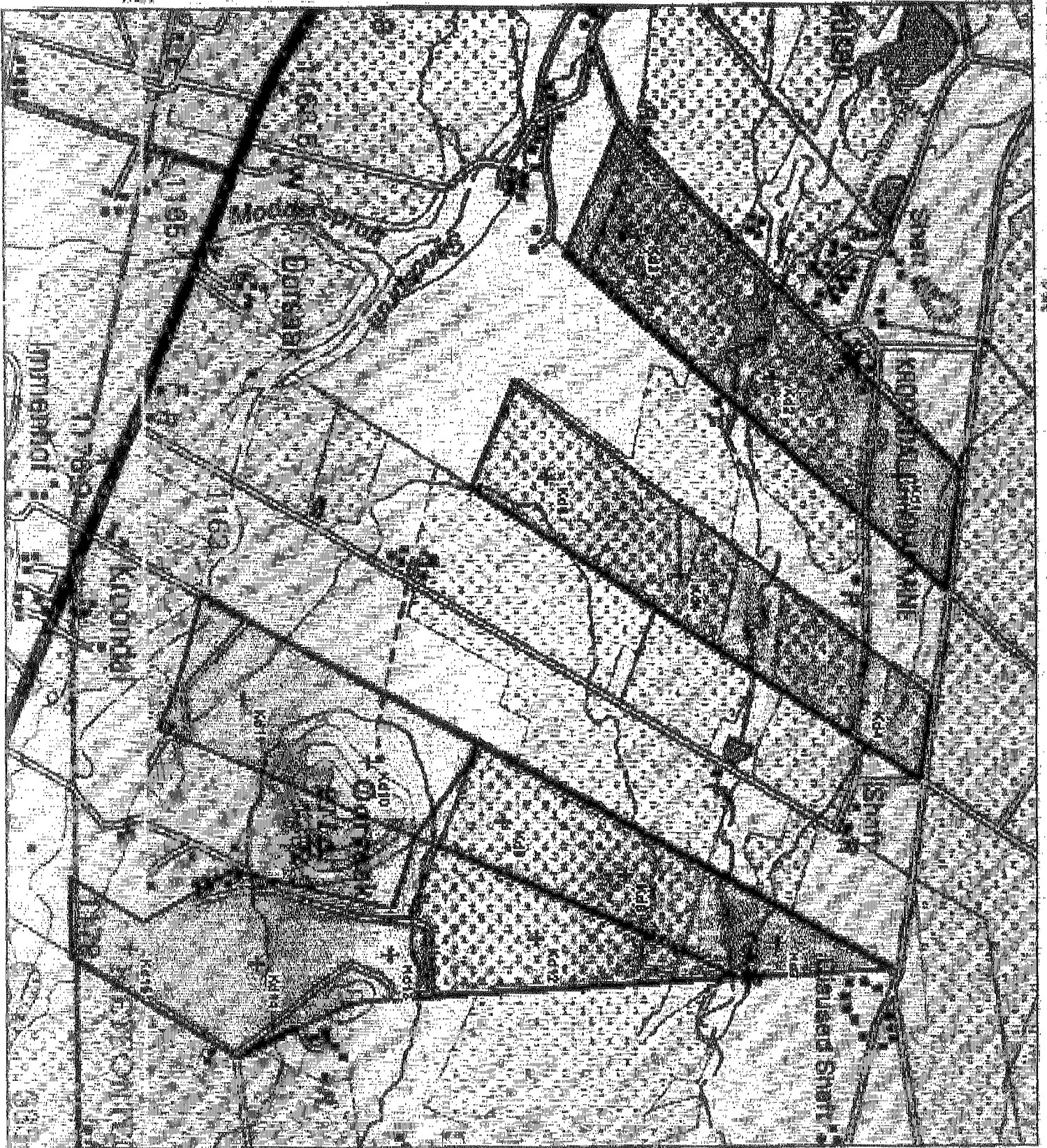
BOREHOLE NO.	DEPTH (m)	WATER DEPTH (m)
KD11	27 1888824	25 720547
KD12	27 1901232	25 7283703
KD14	27 1874905	25 7283746
KD15	27 1871440	25 7329076
KD16	27 1872950	25 7311876
KD17	27 1895601	25 7162141
KD18	27 1915755	25 7182828
KD19	27 1913094	25 7381244
KD20	27 1911974	25 7177545
KD21	27 1846104	25 7421891
KD22	27 1872277	25 7406113
KD23	27 1854803	25 7360108
KD24	27 1851721	25 7415900
KD25	27 1866165	25 7461226
KD26	27 1840037	25 7348809



Commissioned by EcoSystems  
Case 9711441/2021



95% Likelihood of rain, moderate to heavy  
and 50% of rain, light to moderate rain.  
Note: EcoSystems 2021





Nasionale Deurpad; Nasionale Roete		National Freeway; National Route
Hoofpad		Main Road
Arteriale Roete		Arterial Route
Sekondêre Pad; Hoogspanningslyn		Secondary Road; Bench Mark
Andere Pad; Brug		Other Road; Bridge
Downwe Pad en Voetslaanpad		Track and Hiking Trail
Spoorweg; Stasie of Slyn		Railway; Station or Siding
Andere Spoorweg; Tunnel		Other Railway; Tunnel
Opvulling; Dourgrawing		Embankment; Cutting
Kraglyn		Power Line
Beoude Gebied (Hoë, Laë Digteld)		Build-up Area (High, Low Density)
Geboue; Muurste		Building; Ruin
Postkantoor; Polisstasie; Winkel		Post Office; Police Station; Store
Piek van Aanduiding; Skool; Hotel		Place of Worship; School; Hotel
Draadheining; Muur		Fence; Wall
Windpomp; Monument		Windmill; Monument
Kommunikasietoring		Communication Tower
Myn; Ugrawing		Mine Dump; Excavation
Falibek; Sewaerbakke		Trigonometrical Station; Marine Beacon
Vuurtoring en Seewarltlig		Lighthouse and Marine Light
Groëpplaas; Groë		Cemetery; Grave
Internasionale Grens en Baken		International Boundary and Beacon
Provinsiale Grens		Provincial Boundary
Bewaringsgebied		Protected Area
Standhoudende Rivier		Perennial River
Standhoudende Rivier		Perennial Water
Nie-standhoudende Rivier		Non-Perennial River
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Droë Pan		Dry Pan
Mars en Vlei		Marsh and Vlei
Pipeline (bo die grond)		Pipeline (above ground)
Water Tower; Reservoir; Waterpunt		Water Tower; Reservoir; Water Point
Kustrots		Coastal Rocks
Prominent Rock Outcrop		Prominent Rock Outcrop
Erosie; Sand		Erosion; Sand
Woudland		Woodland
Cultiveerde Land		Cultivated Land
Orkander of Vineland		Orchard or Vineyard
Recreation Ground		Recreation Ground
Row of Trees		Row of Trees

REFERENCE

VERKLARING

GEO-ROCK INTERNATIONAL (PTY) LTD  
Registration No 2009/027233/07



South African Heritage Resources Agency

12 August 2011

PO Box 3054  
Mmabatho, 2735  
Tel: 018 381 2032

PER REGISTERED LETTER

Dear Sir/Madam

**APPLICATION FOR A PROSPECTING RIGHT ON THE REMAINDER OF THE FARM  
LEEUWKOP 140, DISTRICT OF MANKWE JP, PROVINCE NORTH WEST**

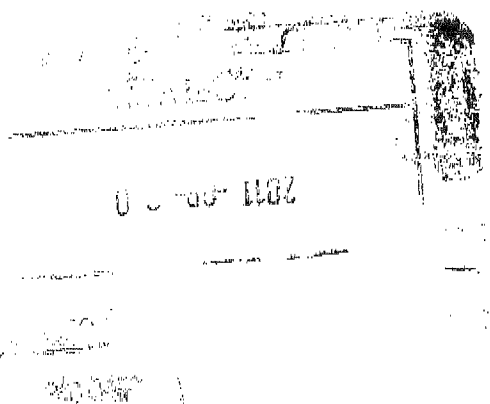
Notice is hereby given of the intent of Monophylla Investments (Pty) Ltd, to prospect for chrome on the above mentioned properties. An application for a Prospecting Right has been accepted by the Department Mineral Resources in this regard. Kindly refer to Annexure A, attached hereto, for a brief summary of the activities that will form part of the proposed prospecting operation.

According to Section 16(4)(b) of the Mineral and Petroleum Resources Development Act, (Act No. 28 of 2002), the landowner or lawful occupier of the land, as well as any other interested and/or affected party must be notified and consulted with regarding the proposed

You are hereby invited to address any comment and/or objection to the proposed prospecting operation to Geo-Rock International on or before 14<sup>th</sup> of September 2011. Please feel free to contact the undersigned on 053 831 7634 should you require any further information in this regard.

If no correspondence is received from you within the stated period, it will be accepted that you have no objections against the proposed prospecting operation.

Yours faithfully



P.O. BOX 3226 • KIMBERLEY • 8300 • SOUTH AFRICA  
PHONE: [+27] 53 831 7634 • FAX: [+27] 53 832 3256  
DIRECTORS • J.F. GROBBELAAR (MD) • M.S. GROBBELAAR • L. LOOTS



P.O. BOX 2338 • KIMBERLEY • 8300 • SOUTH AFRICA  
PHONE: [+27] 53 831 7634 • FAX: [+27] 53 832 3256  
DIRECTORS • J.F. GROBBELAAR (MD) • M.S. GROBBELAAR • L. LOOTS

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

Completed on this \_\_\_\_\_ day of \_\_\_\_\_ 20

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

YES / NO  
If "YES", please list the relevant names and contact numbers:

3. Are there, in your opinion, any other interested and/or affected parties that should be contacted in connection with the proposed project?

## SUMMARY OF THE PROPOSED PROSPECTING OPERATION.

### ANNEXURE A

The exploration activities on the farm Leeuwkop 140 JP will be done in various phases, which will include a detailed desktop study, geophysical and geochemical surveys, as well as RC and Diamond drilling to delineate the various ore zones underlying the property to determine mineable resources.

#### Phase 1 (6 Months): -

- Desktop study (months 1 to 4)
  - Literature research
    - Extract all relative information on the subject and area of interest via internet searches and visiting libraries of relevant universities to obtain a comprehensive background.
  - Aerial photography
    - Obtain the relevant photos from Mobra of the area and by studying it, mark all the recognised outcrops for field investigations.
  - Visit surrounding mines
    - Try to obtain permission to visit nearby mines to obtain more knowledge of what can be expected at depth regarding the geological formations and ore characteristics.

#### • Detailed exploration planning (months 5 to 6)

Based on the information obtained during the desktop study a prospecting plan will be drafted which will include the preferred geophysical method to be implemented and suggested survey lines.

#### Phase 2 (5 Months): -

- Geophysical survey (months 7 to 8)
  - The method decided will be based on knowledge obtained during the desktop study and will be applied on pre-defined survey lines to demarcate the sub-outcrops of the chromitite bands.

#### • Geological Mapping (months 7 to 9)

Linear mapping will be done to confirm the outcrops delineated during the aerial photo studies and to identify possible outcrops not recognised earlier.

- Surface sampling (months 10 to 11)
  - Soil and stream sampling will be done to obtain the locality of the sub-outcrops of the Lower Critical Zone on the property.
  - Sapling will be done according to the specifications as set out in the prospecting plan mentioned earlier.
- Sample Analysis (months 12)
  - Samples taken during the soil and stream sampling exercise (invasive activities) are analysed for chrome and iron to identify the possible extent of the ore body down dip.
- Progress report (month 13)
  - A comprehensive report will be drafted as part of the annual report for DMR and possible early investors.
- Phase 3 (3 Months): -
  - Drilling (months 14 – 21)
    - The number of drill holes are not known at present as it can only be determined once the area underlain by the Critical Zone is known. The drill hole spacing and depth are also dependent on the geometry of the underlying chromite bands, as well as the underlying geological structures.
    - Drilling will be as follows; RC drilling will be done from surface to penetrate through the overburden, where after the hole will be cased and the formations containing the chromite layers will be core drilled. The drilling will be done according to procedures as stipulated by ISO for ore resource determination.
    - The core will be logged, cut and sampled for analyses of the various ore layers.
  - Sample analysis (month 22)
    - The samples emanated from the drilling exercise will be analysed for resource grade calculations.
  - Progress report (month 23 to 24)
    - The progress report for the drilling done will be used to inform the resource geologist what needs to be done during geological modeling of the ore body. It will also be used during the second year as part of the yearly report to the DMR.

Please note that it is anticipated that the total duration of the operations will be approximately 36 months.

c. Business plan  
A business plan will be drafted that will include all geological information, proposed mining plans and the various financial models to either generate further financial support by means of listing on a stock exchange or private investment.

b. Financial models  
Various cost models will be generated by interpreting cost structures into the geological model to determine payable mining zones. (This will also be used to refine the mining model/s)

a. Geological and mineable resources  
Geological resources will be divided into indicated resources and proven reserves. The mineable resources will be determined by applying various cut off criteria, such as grade, depth below surface and thickness.

Phase 5 (3 Months): -  
• Feasibility study including:-

• Ore resources (month 28)  
The grades of the mineral sought after as analysed by the laboratory will be interpreted into the 3-D geological model to obtain a 3-D grade distribution and volumes of the ore, also called the in-situ grade. Cutoff values will be applied to obtain mineable resources.

Phase 4 (3 Months): -  
• Geological modelling (month 25 to 27)  
A 3-D geological model will be created of the ore body/s, using all borehole information, to illustrate the geometry of the various chromitite layers in relation to each other and the surface for later planning of mining activities.

GEO-ROCK INTERNATIONAL (PTY) LTD  
Registration No 2000/027233/07



12 August 2011

South African Heritage Resources Agency

PO Box 3054

Mmabatho

2735

Tel: 018 381 2032

PER REGISTERED LETTER

Dear Sir/Madam

APPLICATION FOR A PROSPECTING RIGHT ON THE FARM DAVIDSKUL 187,  
DISTRICT OF MANKWE JP, PROVINCE NORTH WEST

Notice is hereby given of the intent of African Spirit Trading 473 (Pty) Ltd, to prospect for chrome on the above mentioned properties. An application for a Prospecting Right has been accepted by the Department Mineral Resources in this regard. Kindly refer to Annexure A, attached hereto, for a brief summary of the activities that will form part of the proposed prospecting operation.

According to Section 16(4)(b) of the Mineral and Petroleum Resources Development Act, (Act No. 28 of 2002), the landowner or lawful occupier of the land, as well as any other interested and/or affected party must be notified and consulted with regarding the proposed.

You are hereby invited to address any comment and/or objection to the proposed prospecting operation to Geo-Rock International (Pty) Ltd on or before 16<sup>th</sup> of September 2011. Please feel free to contact the undersigned on 053 831 7634 should you require any further information in this regard.

If no correspondence is received from you within the stated period, it will be accepted that you have no objections against the proposed prospecting operation.

Yours faithfully

P.O. BOX 9226 • KIMBERLEY • 8300 • SOUTH AFRICA  
PHONE: [+27] 53 831 7634 • FAX: [+27] 53 832 3256  
DIRECTORS • J.F. GROBBELAAR (MD) • M.S. GROBBELAAR • L. LOOTS

2011-08-20



**PUBLIC PARTICIPATION PROCESS FOR THE PROPOSED PROSPECTING APPLICATION FOR CHROME ON THE FARM DAVIDSKUIL 167, DISTRICT OF MANKWE JP, NORTH WEST PROVINCE**

**REGISTRATION AND COMMENT FORM FOR THE PUBLIC PARTICIPATION PROCESS**

PLEASE COMPLETE AND RETURN TO:

Geo-Rock International (Pty) Ltd P.O. Box 3226 Kimberley 8300 Tel: 053 831 7634 Fax: 053 832 3256 e-mail: admin@georock.co.za
---

**PERSONAL DETAILS:**

Title: \_\_\_\_\_ Initials: \_\_\_\_\_ First name: \_\_\_\_\_  
 Surname: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Organization(if applicable) \_\_\_\_\_  
 Capacity(member, etc) \_\_\_\_\_  
 Postal Address: \_\_\_\_\_  
 Town/City: \_\_\_\_\_ Code: \_\_\_\_\_

**COMMENTS / OBJECTIONS:**

1. What is your interest in the proposed project?

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2. Do you have any grounds for concern or support for the above mentioned project?

YES / NO

If "YES", please list briefly.

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P.O. BOX 2336 • KIMBERLEY • 8300 • SOUTH AFRICA  
PHONE: [+27] 53 831 7634 • FAX: [+27] 53 832 8258  
DIRECTORS • J.F. GROBBELAAR (MD) • M.S. GROBBELAAR • L. LOOTS

Name \_\_\_\_\_

Signature \_\_\_\_\_

Completed on this \_\_\_\_\_ day of \_\_\_\_\_ 20

---

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YES / NO  
If "YES", please list the relevant names and contact numbers:

3. Are there, in your opinion, any other interested and/or affected parties that should be contacted in connection with the proposed project?

## ANNEXURE A

### SUMMARY OF THE PROPOSED PROSPECTING OPERATION.

The exploration activities on the farm Davidskuil 167 JP will be done in various phases, which will include a detailed desktop study, geophysical and geochemical surveys, as well as RC and Diamond drilling to delineate the various ore zones underlying the property to determine mineable resources.

#### Phase 1 (6 Months): -

- Desktop study (months 1 to 4)

#### - Literature research

Extract all relative information on the subject and area of interest via internet searches and visiting libraries of relevant universities to obtain a comprehensive background.

#### - Aerial photography

Obtain the relevant photos from Mobrai of the area and by studying it, mark all the recognised outcrops for field investigations.

#### - Visit surrounding mines

Try to obtain permission to visit nearby mines to obtain more knowledge of what can be expected at depth regarding the geological formations and ore characteristics.

- Detailed exploration planning (months 5 to 6)

Based on the information obtained during the desktop study a prospecting plan will be drafted which will include the preferred geophysical method to be implemented and suggested survey lines.

#### Phase 2 (5 Months): -

- Geophysical survey (months 7 to 8)

The method decided will be based on knowledge obtained during the desktop study and will be applied on pre-defined survey lines to demarcate the sub-outcrops of the chromitite bands.

- Geological Mapping (months 7 to 9)

Linear mapping will be done to confirm the outcrops delineated during the aerial photo studies and to identify possible outcrops not recognised earlier.

- Surface sampling (months 10 to 11)

## Phase 4 (3 Months): -

- Progress report (month 23 to 24)  
The progress report for the drilling done will be used to inform the resource geologist what needs to be done during geological modelling of the ore body. It will also be used during the second year as part of the yearly report to the DMR.

- Sample analysis (month 22)  
The samples emanated from the drilling exercise will be analysed for resource grade calculations.

The core will be logged, cut and sampled for analyses of the various ore layers.

Drilling will be as follows: RC drilling will be done from surface to penetrate through the overburden, where after the hole will be cased and the formations containing the chromite layers will be core drilled. The drilling will be done according to procedures as stipulated by ISO for ore resource determination.

The number of drill holes are not known at present as it can only be determined once the area underlain by the Critical Zone is known. The drill hole spacing and depth are also dependent on the geometry of the underlying chromite bands, as well as the underlying geological structures.

- Drilling (months 14 – 21)

## Phase 3 (3 Months): -

- Progress report (month 13)  
A comprehensive report will be drafted as part of the annual report for DMR and possible early investors.

- Sample Analysis (months 12)  
Samples taken during the soil and stream sampling exercise (invasive activities) are analysed for chrome and iron to identify the possible extent of the ore body down dip.

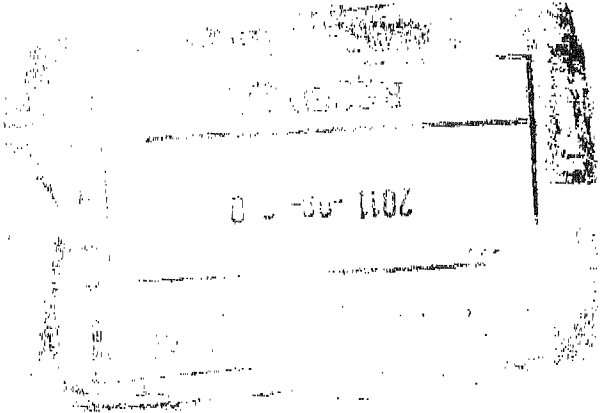
Sampling will be done according to the specifications as set out in the prospecting plan mentioned earlier.

Soil and stream sampling will be done to obtain the locality of the sub-outcrops of the Lower Critical Zone on the property.

Please note that it is anticipated that the total duration of the operations will be approximately 36 months.

- c. Business plan  
 A business plan will be drafted that will include all geological information, proposed mining plans and the various financial models to either generate further financial support by means of listing on a stock exchange or private investment.
- b. Financial models  
 Various cost models will be generated by interpreting cost structures into the geological model to determine payable mining zones. (This will also be used to refine the mining model/s)
- a. Geological and mineable resources  
 Geological resources will be divided into indicated resources and proven reserves. The mineable resources will be determined by applying various cut off criteria, such as grade, depth below surface and thickness.
- Phase 5 (3 Months): -
- Feasibility study including:-
    - Ore resources (month 28)  
 The grades of the mineral sought after as analysed by the laboratory will be interpreted into the 3-D geological model to obtain a 3-D grade distribution and volumes of the ore, also called the in-situ grade. Cutoff values will be applied to obtain mineable resources.
    - Ore resources (month 27)  
 A 3-D geological model will be created of the ore body/s, using all borehole information, to illustrate the geometry of the various chromitite layers in relation to each other and the surface for later planning of mining activities.

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PHONE: [+27] 53 831 7634 • FAX: [+27] 53 832 3256  
DIRECTORS • J.F. GROBBELAAR (MD) • M.S. GROBBELAAR • L. LOOTS



Yours faithfully

You are hereby invited to address any comment and/or objection to the proposed prospecting operation to Geo-Rock International (Pty) Ltd on or before 15<sup>th</sup> of September 2011. Please feel free to contact the undersigned on 053 831 7634 should you require any further information in this regard.

If no correspondence is received from you within the stated period, it will be accepted that you have no objections against the proposed prospecting operation.

According to Section 16(4)(b) of the Mineral and Petroleum Resources Development Act, (Act No. 28 of 2002), the landowner or lawful occupier of the land, as well as any other interested and/or affected party must be notified and consulted with regarding the proposed prospecting operation.

Notice is hereby given of the intent of African Union Directory (Pty) Ltd, to prospect for chrome on the above mentioned properties. An application for a Prospecting Right has been accepted by the Department Mineral Resources in this regard. Kindly refer to Annexure A, attached hereto, for a brief summary of the activities that will form part of the proposed prospecting operation.

APPLICATION FOR A PROSPECTING RIGHT ON PORTIONS 2, 5, 6 AND THE REMAINDER OF THE FARM TWEELAGTE 175, DISTRICT OF MANKWE JR, PROVINCE NORTH WEST

Dear Sir/Madam

PER REGISTERED LETTER

Tel: 018 381 2032

2735

Mmabatho

PO Box 3054

South African Heritage Resources Agency

12 August 2011

GEO-ROCK INTERNATIONAL (PTY) LTD  
Registration No 2000/027233/07





**PUBLIC PARTICIPATION PROCESS FOR THE PROPOSED PROSPECTING OPERATIONS FOR CHROME ON PORTIONS 2, 5, 6 AND THE REMAINDER OF THE FARM TWEELAGTE 175, DISTRICT OF MANKWE JP, NORTH WEST PROVINCE**

**REGISTRATION AND COMMENT FORM FOR THE PUBLIC PARTICIPATION PROCESS.**

PLEASE COMPLETE AND RETURN TO:

Geo-Rock International (Pty) Ltd  
 P.O. Box 3226  
 Kimberley  
 8300  
 Tel: 053 831 7634  
 Fax: 053 832 3256  
 e-mail: admin@georock.co.za

**PERSONAL DETAILS:**

Title: \_\_\_\_\_ Initials \_\_\_\_\_  
 Surname: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Organization(if applicable) \_\_\_\_\_  
 Capacity(member, etc) \_\_\_\_\_  
 Postal Address: \_\_\_\_\_  
 Town/City: \_\_\_\_\_ Code: \_\_\_\_\_

**COMMENTS / OBJECTIONS:**

1. What is your interest in the proposed project?

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2. Do you have any grounds for concern or support for the above mentioned project?

YES / NO

If "YES", please list briefly.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

P.O. BOX 2338 - KIMBERLEY - 8300 - SOUTH AFRICA  
PHONE: [+27] 53 831 7634 + FAX: [+27] 53 832 3258  
DIRECTORS • J.H. GROBBELAAR (MD) • M.S. GROBBELAAR • L. LOOTS

Name \_\_\_\_\_

Signature \_\_\_\_\_

Completed on this \_\_\_\_\_ day of \_\_\_\_\_ 20

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

YES / NO  
If "YES", please list the relevant names and contact numbers:

3. Are there, in your opinion, any other interested and/or affected parties that should be contacted in connection with the proposed project?

August 15, 2011



# SUMMARY OF THE PROPOSED PROSPECTING OPERATION.

## ANNEXURE A

The exploration activities on the farm Tweelaagte 175 JP will be done in various phases, which will include a detailed desktop study, geophysical and geochemical surveys, as well as RC and Diamond drilling to delineate the various ore zones underlying the property to determine mineable resources.

### Phase 1 (6 Months): -

- Desktop study (months 1 to 4)

#### - Literature research

Extract all relative information on the subject and area of interest via internet searches and visiting libraries of relevant universities to obtain a comprehensive background.

#### - Aerial photography

Obtain the relevant photos from Mobray of the area and by studying it, mark all the recognised outcrops for field investigations.

#### - Visit surrounding mines

Try to obtain permission to visit nearby mines to obtain more knowledge of what can be expected at depth regarding the geological formations and ore characteristics.

- Detailed exploration planning (months 5 to 6)

Based on the information obtained during the desktop study a prospecting plan will be drafted which will include the preferred geophysical method to be implemented and suggested survey lines.

### Phase 2 (5 Months): -

- Geophysical survey (months 7 to 8)

The method decided will be based on knowledge obtained during the desktop study and will be applied on pre-defined survey lines to demarcate the sub-outcrops of the chromitite bands.

- Geological Mapping (months 7 to 9)

Linear mapping will be done to confirm the outcrops delineated during the aerial photo studies and to identify possible outcrops not recognised earlier.

- Surface sampling (months 10 to 11)

Soil and stream sampling will be done to obtain the locality of the sub-outcrops of the Lower Critical Zone on the property.

Sampling will be done according to the specifications as set out in the prospecting plan mentioned earlier.

- Sample Analysis (months 12)  
Samples taken during the soil and stream sampling exercise (invasive activities) are analysed for chrome and iron to identify the possible extent of the ore body down dip.

- Progress report (month 13)

A comprehensive report will be drafted as part of the annual report for DMR and possible early investors.

#### Phase 3 (3 Months): -

- Drilling (months 14 – 21)

The number of drill holes are not known at present as it can only be determined once the area underlain by the Critical Zone is known. The drill hole spacing and depth are also dependent on the geometry of the underlying chromitite bands, as well as the underlying geological structures.

Drilling will be as follows; RC drilling will be done from surface to penetrate through the overburden, where after the hole will be cased and the formations containing the chromitite layers will be core drilled. The drilling will be done according to procedures as stipulated by ISO for ore resource determination.

The core will be logged, cut and sampled for analyses of the various ore layers.

- Sample analysis (month 22)

The samples emanated from the drilling exercise will be analysed for resource grade calculations.

- Progress report (month 23 to 24)

The progress report for the drilling done will be used to inform the resource geologist what needs to be done during geological modelling of the ore body. It will also be used during the second year as part of the yearly report to the DMR.

#### Phase 4 (3 Months): -

- Geological modeling (month 25 to 27)  
A 3-D geological model will be created of the ore body/s, using all borehole information, to illustrate the geometry of the various chromitite layers in relation to each other and the surface for later planning of mining activities.

- Ore resources (month 28)  
The grades of the mineral sought after as analysed by the laboratory will be interpreted into the 3-D geological model to obtain a 3-D grade distribution and volumes of the ore, also called the in-situ grade. Cutoff values will be applied to obtain mineable resources.

Phase 5 (3 Months): -

- Feasibility study including:-

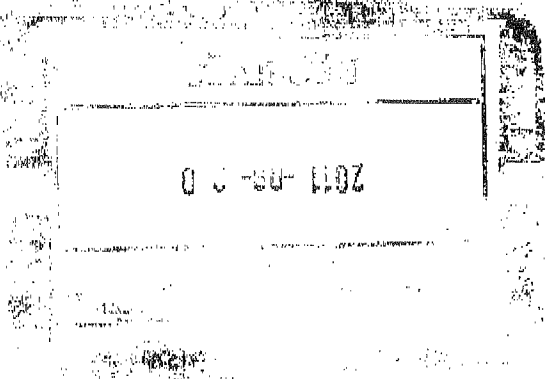
- a. Geological and mineable resources  
Geological resources will be divided into indicated resources and proven reserves. The mineable resources will be determined by applying various cut off criteria, such as grade, depth below surface and thickness.

- b. Financial models  
Various cost models will be generated by interpreting cost structures into the geological model to determine payable mining zones. (This will also be used to refine the mining models)

- c. Business plan  
A business plan will be drafted that will include all geological information, proposed mining plans and the various financial models to either generate further financial support by means of listing on a stock exchange or private investment.

Please note that it is anticipated that the total duration of the operations will be approximately 36 months.

K2M Environmental (Pty) Ltd. Company registration: 2006/016491/07  
North West Office contact details:  
Postal address: P.O. Box 20831, Nordbrug, 2522 Email: gert@k2m.co.za Cell: 082 776 0981 Fax: 086 622 7276



Director: K2M Environmental (Pty) Ltd.

Mr. Gert Watson  
*[Handwritten Signature]*

Yours faithfully

Please contact the undersigned should you require any additional information

The applicant/developer has initiated a Basic Assessment Process to obtain Environmental Authorisation from the North West Department of Economic Development, Environment, Conservation and Tourism for the establishment of a residential township on Portion 55 of the Farm Vythoek 428 IQ, in the jurisdiction of the Tlokwe Local Municipality-Potchefstroom, North West Province.

The proposed development will require environmental authorisation as it involves activities listed under the Environmental Impact Assessment (EIA) Regulations Listing Notice 1 (GNR 544) of 2010, and therefore a Basic Assessment Process will be applicable as contemplated in Regulations 21 to 25 of EIA Regulations of 2010.

K2M Environmental (Pty) Ltd was appointed as the independent Environmental Assessment Practitioner (EAP) responsible for undertaking the Environmental Impact Assessment (EIA) Process. As stipulated in Regulation 54(2)(b)(v) of the EIA Regulations 2010, the EAP managing the EIA process must give written notice to any organ of state having jurisdiction in respect to any aspect of the activity.

Attached please find a background information document for your perusal and comment. Your written comments on this development will be appreciated. All comments must be forwarded to our offices not later than 14 October 2011 to allow adequate time to incorporate your inputs. Should your office not wish to comment in this matter, it will be appreciated if we could receive a written confirmation thereto to enable us to continue with the application.

**APPLICATION FOR ENVIRONMENTAL AUTHORIZATION FOR THE ESTABLISHMENT OF THE PROPOSED BAIJUE PARK EXTENSION 47 ON PORTION 55 OF THE FARM VYTHOEK, POTCHEFSTROOM**

The Provincial Manager  
South African Heritage Resource Agency  
P.O. Box 3054  
Mmabatho  
2735

12 September 2011

Ref no: NWP / EIA / 53/ 2011



**APPLICATION FOR ENVIRONMENTAL AUTHORISATION FOR THE  
ESTABLISHMENT OF THE PROPOSED BAILIE PARK EXTENSION 47,  
ON PORTION 55 OF THE FARM VYHOEK, POTCHEFSTROOM**

SEPTEMBER 2011



**1. INTRODUCTION**

The applicant (Winston Dennis Fuller) has initiated an application with the North West Department of Economic Development, Environment, Conservation and Tourism, to acquire environmental authorisation to establish a residential township (Bailie Park Extension 47) on Portion 55 of the farm Vyhoek, Potchefstroom, North West Province.

**2. LEGAL REQUIREMENTS**

In accordance with the Environmental Impact Assessment Regulations of 2010, regulations published Government Notice R 543 of 18 June 2011, in terms of Sections 24(5), 24M and 44 of the National Environmental Management Act (Act No. 107 of 1998), the applicant is required to carry out a Basic Assessment Process for the following activities:

**EIA Regulation Listing Notice (GNR 549) of 2010:**

**Activity 23 :** The transformation of undeveloped, vacant or derelict land to-

- (i) residential, retail, commercial, recreational, industrial or institutional use, inside and urban area, and where the total area to be transformed is 5 hectares or more, but less than 20 hectares.

**Relevance to proposed development :**

The applicant wishes to establish a residential township covering a total surface area of 9,072Ha situated within the town Potchefstroom

**3. ENVIRONMENTAL ASSESSMENT PRACTITIONER**

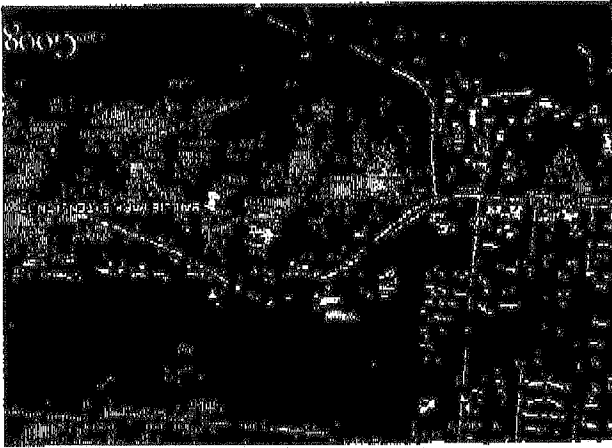
K2M Environmental (Pty) Ltd was appointed by the applicant as the independent Environmental Assessment Practitioner (EAP) to undertake the Environmental Impact Assessment process.

**4. SITE DESCRIPTION**

**4.1 Location**

The proposed development will be located on Portion 55 of the Farm Vyhoek, 428, IC- Potchefstroom, North West Province.

Direction to the site:  
The site of the proposed development is situated adjacent to Bailie Park Extension 35, Bailie Park is located in the east of Potchefstroom; and the far south boundary of Bailie Park. The development site is located within the urban edge of the Tokwa City Council. The site can be accessed from the existing Wynne Street.



**Figure 1:** Location of the proposed Residential Development

- 39 Residential 1<sup>st</sup> erven (4,5447 ha)
- 1 Residential 3<sup>rd</sup> erven (0,5926 ha)
- 1 Business (0,4876 ha)
- 3 Public Open Space (2,3800 ha)
- Public Road/ Access road.

The proposed development will consist of the following components:  
The total area of the proposed residential development is approximately 9,072ha and will include the following components:

**5. DESCRIPTION OF PROPOSED ACTIVITY**

Direction from site	Current zoning	Land use
North	"Agriculture"	Small holdings
East	"Agriculture"	Small holdings & farms
South	"Agriculture"	Small holdings & farms
West	"Residential 1 & 2"	dwelling houses (Bailie Park ext. 35 township)

Surrounding zonings & land uses:

**4.2 Current and Surrounding Land Use**

"The construction business, Fuller Civils is currently operating from the application site. The area occupied by the business is approximately 2000 m<sup>2</sup> and consist of storage place and an office building".

## **6. PUBLIC PARTICIPATION PROCESS**

Public participation is an integral part of the Environmental Authorisation process, and will include the following components:

### **6.1 First part of the Public Participation:**

The primary purpose of this phase is to give potential interested and affected parties an opportunity to register as an interested or affected party and submit comments and concerns. These comments and concerns are included in the Scoping Report.

### **6.2 Comments on the Environmental Report & EMPr:**

The Basic Assessment Report and Environmental Management Programme (EMPr) will be made available to registered I&AP's for comment before it is submitted to the competent authority. All comments received will be included in a comments and response report compiled by the Environmental Assessment Practitioner. This report will describe the issue raised, the date it was raised and by whom, and how the issue will be, or has been dealt with.

The Basic Assessment Report will also include the findings of the EIA study, recommendations made by the respective specialist (if required) and any additional information requested by the Department of Economic Development, Environment, Conservation and Tourism.

The Basic Assessment Report will be submitted to the Department for consideration of the application at the end of the comment period and once all the inputs and comments have been incorporated in to the report.

## **7. CONTACT DETAILS OF EAP**

Your participation is important for the process. If you would like us to add you to our database of stakeholders who wish to participate in this process, or should you have any queries regarding the process or comments about the proposed development, please contact

Mr Gert Watson (details below)  
on or before 14 October 2011.

**Contact details:**

**Mr. Gert Watson**

K2M Environmental (Pty) Ltd

P.O. Box 20831

Noordbrug

2522

Cell: 082 776 0881

Fax: 086 622 7276

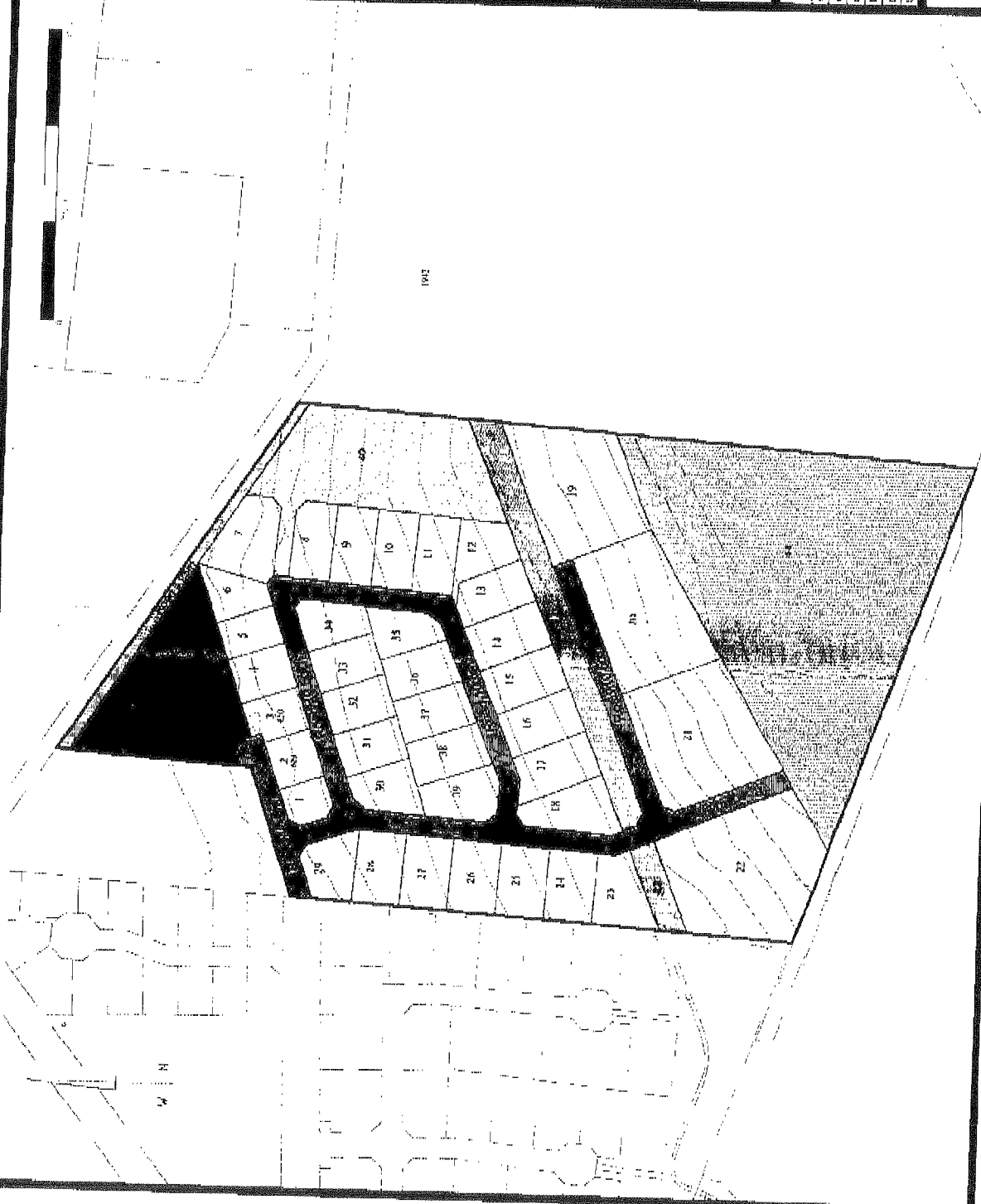
Email: [gert@k2m.co.za](mailto:gert@k2m.co.za)

**BAILLIE PARK EXTENSION 47**

**CONSULTANT**  
 Town Planning  
 Geologist  
 Environmental Consultant  
 Civil Engineer  
 Electrical Engineer

**NAME**  
 Townscape Planning Solutions  
 Vignca & Associates  
 PDA Technologies  
 Fernholm Civil Engineering Services  
 Mulla Engineering

**SIGNATURE**  
 082 462 1105  
 083 371 5304  
 081 364 8943  
 082 381 4745  
 018 471 9032



**TOWNSHIP ESTABLISHMENT ON:  
 PORTION 55 OF THE FARM VYFHOEK,  
 NO.428, 1Q NORTH WEST**

LAND USE	ERS NO	NUMBER	AREA (sq)	%
Residential 1	1-33	33	4,5447	88
Street	40	1	0,3523	3
	41	1	0,3873	3
	42-44	3	2,3610	3
			0,9430	2
			0,1142	1
<b>Total</b>	<b>44</b>		<b>9,0723</b>	<b>100</b>

**ZONING MAP**  
 ALL OF THE PORTION 55 OF THE FARM VYFHOEK, NO. 428, 1Q NORTH WEST, IS ZONED R1 (RESIDENTIAL) AND THE PORTION 40, 41, 42, 43 AND 44 OF THE PORTION 55 OF THE FARM VYFHOEK, NO. 428, 1Q NORTH WEST, IS ZONED R1 (RESIDENTIAL).  
 THE PORTION 40, 41, 42, 43 AND 44 OF THE PORTION 55 OF THE FARM VYFHOEK, NO. 428, 1Q NORTH WEST, IS ZONED R1 (RESIDENTIAL) AND THE PORTION 40, 41, 42, 43 AND 44 OF THE PORTION 55 OF THE FARM VYFHOEK, NO. 428, 1Q NORTH WEST, IS ZONED R1 (RESIDENTIAL).

Pr. No. - - - - -  
 Date: - - - - -

**GENERAL**  
 This plan is submitted in accordance with the provisions of the Town and Country Planning Act, 1977 (Act No. 103 of 1977) and the Regulations made thereunder.  
 The applicant hereby certifies that the information furnished in this plan is true and correct to the best of his knowledge and belief.  
**CONTRIBUTOR'S PR**  
 Submitted and accepted by:  
 [Signature]



**DESCRIPTION**  
**LAYOUT PLAN**

OWNER:	W. Venter
DRAWN:	Checked: F. van der Merwe
DATE:	18/09/11
SCALE:	1:300

**Townscape Planning Solutions**  
 P.O. Box 20833  
 Koozberg  
 2052  
 F&C : 083 633 3041 / 018 280 8014  
 Email : wv@townscapeplansolutions.co.za

**Townscape Planning Solutions**

THIS PLAN IS A PRELIMINARY PLAN AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES. THE PLAN IS THE PROPERTY OF TOWNSCAPE PLANNING SOLUTIONS AND WILL BE DESTROYED OR RECALLED WITHOUT NOTICE IF NOT ORDERED BY THE CLIENT WITHIN 12 MONTHS OF THE DATE OF ISSUANCE.



# Newsletter

June 2011

## Mmamabula-Medupi Transmission Integration Project

### Contents

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Delta-Epsilon	2
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### Margen Industrial Services

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### STATUS OF RELATED PROJECTS

PROJECT	STATUS
<b>Medupi-Dinaledi</b> (2 x 400kV)	Construction has already commenced in the Medupi-Spitskop section and is scheduled to be completed by the end of 2011. The construction of the section from Spitskop to Dinaledi will start in September 2011 and is scheduled to be completed by the end of 2013
<b>Medupi-Marang</b> (1 x 400kV)	Construction has already commenced in the Medupi-Spitskop section and is scheduled to be completed by the end of 2011. The construction of the section from Spitskop to Marang will start in September 2011 and is scheduled to be completed by the end of 2013.
<b>Mmamabula-Delta</b> (4 x 400kV)	Negotiations to obtain the necessary servitude for the construction of the power lines will commence in the near future.
<b>Medupi-Delta &amp; Delta Substation</b> (4 x 400kV)	Servitude acquisition for the powerlines has been completed and the construction EMP is to be submitted to DEA for authorization.
<b>Delta-Epsilon 6x765kV Power Lines</b> (6 x 765kV)	Awaiting Record of Authorisation (RoA)
<b>Epsilon Substation &amp; Associated Turn-ins Mogwase (Ngwedi) Substation &amp; Turn-ins</b>	Technical EIA Phase has been completed. The outstanding geotechnical and agricultural studies have also been completed and will be integrated into the Draft EIA Report that will be out for public review in the last quarter of 2011.
	Final EIA report was submitted in March 2011 to the DEA, and is awaiting authorisation

Margen Industrial Services would like to take this opportunity to thank all of the Interested & Affected Parties (I&APs) for their continuous participation.

We are looking forward to continue with positive Public Participation Processes for all our EIA projects for the rest of 2011.

Margen Industrial Services

RECEIVED



