

5 March 2008

FOR ATTENTION:

Lene Grobbelaar
National DEAT

Copy: Victor Mongwe
Limpopo DEDET

**APPLICATION FOR AUTHORISATION FOR THREE PROPOSED 400 kV
TRANSMISSION LINES IN THE LIMPOPO PROVINCE**

Please find attached the Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2005 for the construction of transmission lines as follows:

- » The Medupi Power Station to the existing Witkop Substation
- » The Medupi Power Station to the proposed Mokopane Substation¹
- » The proposed Mokopane Substation to the existing Witkop Substation

Please acknowledge receipt of this application, and advise the Case Officer and EIA Reference Number accordingly.

Please contact me with any queries in this regard.

Kind regards

Jo-Anne Thomas

cc. Mamokete Mafumo – Eskom

Attached: Application Form

¹ The proposed Mokopane Substation is the subject of a separate application which will be submitted shortly

File Reference Number:

Application Number:

Date Received:

1. This application form is current as of 1 July 2006. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. It is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. Incomplete applications may be returned to the applicant for revision.
5. The use of "not applicable" in the form must be done with circumspection as if it is used in respect of material information that is required by the competent authority for assessing the application, and may result in the rejection of the application as provided for in the regulations.
6. This application must be handed in at the offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed applications will be accepted.
8. The application must be completed by an independent environmental practitioner.
9. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

[illegible]

(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

APPLICATION FORM

1. Background information

Project applicant:	Eskom Holdings Limited		
Trading name (if any):			
Contact person:	Mmamoloko Seabe		
Physical address:	Megawatt Park, Maxwell Drive, Sandton		
Postal address:	PO Box 1091 JOHANNESBURG		
Postal code:	2000	Cell:	-
Telephone:	(011) 800-2345	Fax:	(011) 800-3917
E-mail:	Mmamoloko.seabe@eskom.co.za		

Project consultant:	Savannah Environmental (Pty) Ltd		
Contact person:	Jo-Anne Thomas		
Postal address:	PO Box 148 Sunninghill		
Postal code:	2157	Cell:	082 775 5628
Telephone:	(011) 234-6621	Fax:	086 684 0547
E-mail:	joanne@savannahSA.com		
Professional affiliation(s) (if any)	The South African Council for Natural Scientific Professions		

Landowner:	Linear development. Landowners to be identified through Scoping Process		
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

Local authority in whose jurisdiction the proposed activity will fall:	Waterberg District Municipality		
Contact person:	Mr P Sebatjane (Municipal Manager)		
Postal address:	Private Bag X1018 MODIMOLLE		
Postal code:	0510	Cell:	-
Telephone:	(014) 717-1344/6	Fax:	(014) 717-2931
E-mail:	psebatjane@waterberg.gov.za		

In instances where there is more than one local authority involved, please attach a list of local authorities with their contact details to this application.

Project title:	- Proposed 400 kV transmission power line between the Medupi power station (near Lephalale) and the Witkop substation (new Polokwane), Limpopo Province - Construction of a new 400kV transmission power line between the Medupi Power Station (near Lephalale) and the new Mokopane Substation, a distance of ~150 km - Construction of a new 400kV transmission power line between the new Mokopane Substation and the existing Witkop Substation, a distance of ~60 km
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Property description:	Linear development. See attached list of potentially affected properties. (Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.
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Town(s) or district(s):	Various – linear development
Physical address:	Linear development

In instances where there is more than one town or district involved, please attach a list of towns or districts to this application.

Current land-use zoning:	Various – linear development
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In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

Is a change of land-use or a consent use application required?
Must a building plan be submitted to the local authority?

YES	
YES	

APPLICATION FORM

Locality map:

A locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be at least 1:50 000. The scale must be indicated on the map. The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow.

Owners consent:

In line with the requirements of the EIA regulations, letters of consent of all landowners or a detailed explanation by the applicant explaining why consent is not possible must be attached to the back of this document as Appendix B.

2. Activities applied for

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice) :	Describe each listed activity:
Government Notice R387 (21 April 2006)	1(l)	The construction of facilities or infrastructure, including associated structures or infrastructure, for the transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more
Government Notice R386 (21 April 2006)	12	The transformation or removal of indigenous vegetation of 3 hectares or more or of any size where the transformation or removal would occur within a critically endangered or an endangered ecosystem listed in terms of section 52 of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).
Government Notice R386 (21 April 2006)	14	The construction of masts of any material of type and of any height, including those used for telecommunications broadcasting and radio transmission, but excluding (a) masts of 15m and lower exclusively used by (i) radio amateurs; or (ii) for lightening purposes (b) flagpoles; and (c) lightening conductor poles
Government Notice R386 (21 April 2006)	15	The construction of a road that is wider than 4 metres or that has a reserve wider than 6 metres, excluding roads that fall within the ambit of another listed activity or which are access roads of less than 30 metres long.

Please note that any authorisation that may result out of this application will only cover activities applied for. Omissions may render any authorisation that is based on incomplete information to be nil and void.

3. Type of application

3.1 Application for Basic Assessment

Is this an application for conducting a basic assessment (as defined in the regulations)?

☐	NO
☐	YES

If, YES, is a basic assessment report attached?

If, NO, please indicate when the basic assessment report will be submitted:

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3.2 Application for Scoping and Environmental Impact Assessment (EIA)

Is this an application for Scoping and EIA (as defined in the regulations)?

☐	YES
☐	NO

If, YES, is a Scoping Report and Plan of Study for EIA attached?

If, NO, please indicate when the Scoping Report and Plan of Study for EIA will be submitted:

June 2008

The scoping report and/or the plan of study for EIA will be submitted after consultation with the competent authority:

☐	YES
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A consultation with the competent authority is hereby requested:

☐	YES
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4. Declarations

4.1 The independent Environmental Assessment Practitioner

I, Jo-Anne Thomas, declare under oath that I -

- act as the independent environmental practitioner in this application;
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2005;
- have and will not have no vested interest in the proposed activity proceeding;
- have no, and will not engage in, conflicting interests in the undertaking of the activity;
- undertake to disclose, to the competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2005;
- will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- will keep a register of all interested and affected parties that participated in a public participation process; and
- will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

Jo-Anne Thomas
Signature of the environmental practitioner:

Savannah Environmental
Name of company:

04/03/2008
Date:

[Signature]
Signature of the Commissioner of Oaths:

Date:

Designation:

Official stamp (below)

Jo-Anne Thomas
HANDTEKENING VAN VERKLAARER/SIGNATURE OF DECLARANT

Ek swaartuur dat die verklaarder
erken dat hy/sy vertrou is met die
inhoud van die verklaring en dat hy/sy
hierdie verklaring is bevestigend
voor my en verklaar dat hy/sy
dieselfde in my teenwoordigheid
deurloopt.

I certify that the deponent has
acknowledged the contents of
this declaration which was sworn to
affirmed before me and the deponent's
signature/thumb print/mark was placed
thereon in my presence.

[Signature]
KOMMISARIS VAN OATHS
OFFICE OF THE COMMISSIONER OF OATHS
Voor die Republiek van Suid-Afrika
(Transvaal/Free State)

[Signature]
Amp (rank) SP42SP Republiek van Suid-Afrika
Designation (rank) SP42SP Ex Officio Republic of South Africa

Besighoudingsadres
Business address
BESKERMINGSDIENSTE
MEGAWATT PARK MAXWELLYLAAN SANDTON
PROTECTIVE SERVICES
MAXWELL DRIVE SANDTON

Datum 2008/03/05 Plek M.V.P.
Date Place

4.2 The Applicant

I, Ms Mmamoloko Seabe, declare under oath that I -

- Am, or represent, the applicant in this application;
- appointed the environmental assessment practitioner as indicated under point 4.1 above to act as the independent environmental assessment practitioner for this application;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2005, including but not limited to -
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these regulations;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.



Signature of the applicant:

ESKOM HOLDING LTD

Name of company:

04/03/08

Date:

Signature of the Commissioner of Oaths:

Date:

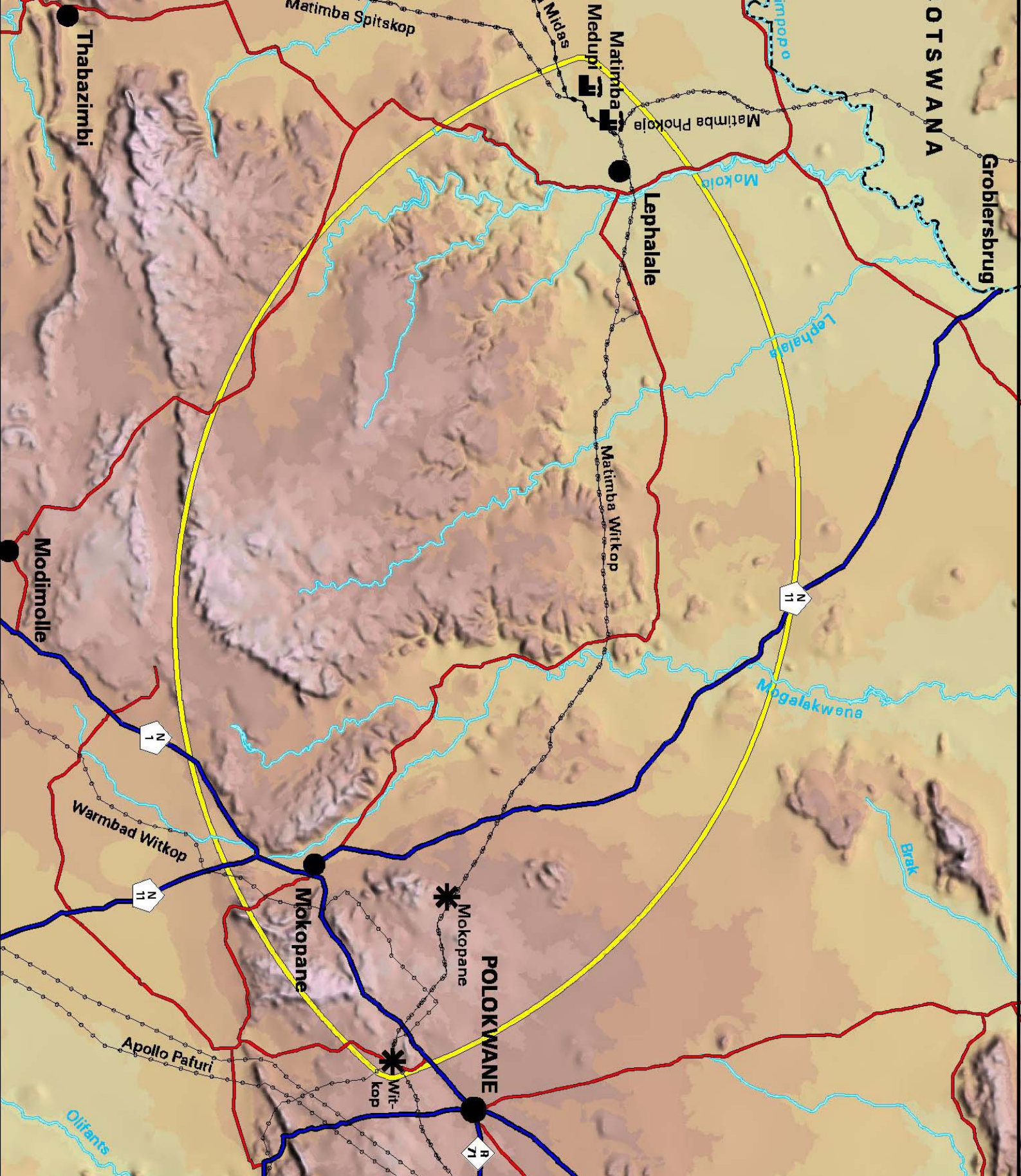
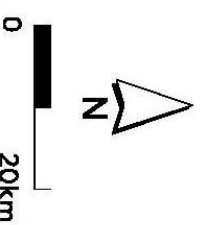
Designation:

Official stamp (below):

ERNEST THEODORE JULIUS GRUNEWALD
EX OFFICIO
COMMISSIONER OF OATHS
SURVEYOR
ESKOM
P.O. BOX 1091
JOHANNESBURG
REP. OF SOUTH AFRICA

Mokopane Integration Project

-  National/Arterial Road
-  Main Road
-  Major Town
-  Transmission Line
-  Major River
-  International Border
-  Power Station
-  Substation
-  Study Area



MOKOPANE INTEGRATION PROJECT: PARENT FARMS WITHIN STUDY AREA

FARM_NAME	POINT_LAT	POINT_LON	GID
KAALLAAGTE 283 KR	28.842927000	-24.280122000	29086.000000000
MOOIPLAAS 296 KR	28.874427000	-24.278387000	29087.000000000
WORCESTER 520 LQ	27.640509000	-23.730234000	29088.000000000
ALTOOSTYD 506 LQ	27.641928000	-23.704913000	29089.000000000
VOGELSTRUISFONTEIN 472 LQ	27.732282000	-23.618234000	29352.000000000
VOGELSTRUISFONTEIN 472 LQ	27.757032000	-23.627703000	29353.000000000
VOGELSTRUISFONTEIN 472 LQ	27.749545000	-23.628762000	29354.000000000
GROOTFONTEIN 501 LQ	27.738577000	-23.652336000	29355.000000000
GROOT VOGELSTRUISFONTEIN 644 LQ	27.732787000	-23.634211000	29356.000000000
COLESBERG 556 LR	28.072787000	-23.734562000	29357.000000000
COLESBERG 558 LR	28.061769000	-23.742814000	29358.000000000
HOLLANDSDRIFT 15 KS	29.282475000	-24.026902000	29493.000000000
TURFFONTEIN 14 KS	29.270194000	-24.070054000	29494.000000000
WILDEBEESTFONTEIN 20 KS	29.324695000	-24.071075000	29495.000000000
RECHTGENOEG 19 KS	29.330887000	-24.080298000	29496.000000000
NANTES 25 KS	29.354870000	-24.080765000	29497.000000000
ROTTERDAM 12 KS	29.210396000	-24.026042000	29499.000000000
RIETVLEY 13 KS	29.220753000	-24.072727000	29500.000000000
VRISCHGEWAAGD 33 KS	29.302440000	-24.141043000	29503.000000000
RIETFONTEIN 34 KS	29.264132000	-24.164015000	29504.000000000
WATERVAL 18 KS	29.332568000	-24.108161000	29507.000000000
EERSTELING 17 KS	29.263167000	-24.116716000	29508.000000000
HOLMESLEIGH 1 KS	29.015492000	-24.028030000	29509.000000000
RIETVALEI 5 KS	29.071386000	-24.039638000	29510.000000000
UITLOOP 3 KS	29.034177000	-24.107321000	29511.000000000
BLOEMHOF 4 KS	29.067752000	-24.080232000	29512.000000000
LANDSBERGHOEK 10 KS	29.117622000	-24.099044000	29513.000000000
HARTEBEESTFONTEIN 8 KS	29.123693000	-24.058886000	29514.000000000
LUNSKLIP 7 KS	29.152336000	-24.027987000	29515.000000000
HELDERFONTEIN 6 KS	29.106226000	-24.008062000	29516.000000000
DRIEFONTEIN 9 KS	29.171578000	-24.051243000	29517.000000000
ROTTERDAM 11 KS	29.190287000	-24.057689000	29518.000000000
DRIEFONTEIN 9 KS	29.164682000	-24.096407000	29519.000000000
PORTUGAL 55 KS	29.208483000	-24.188235000	29522.000000000
SPANJE 36 KS	29.221760000	-24.160894000	29523.000000000
DE BERG 35 KS	29.215957000	-24.112790000	29524.000000000
BUFFELSHOEK 53 KS	29.161913000	-24.212047000	29526.000000000
NEDERLAND 51 KS	29.128479000	-24.248187000	29527.000000000
MARIBASHOEK 50 KS	29.099062000	-24.206749000	29528.000000000
VIER EN TWINTIG RIVIER 49 KS	29.071663000	-24.239058000	29529.000000000
DE HOOP 54 KS	29.161685000	-24.185212000	29530.000000000
MAKAPANSGAT 39 KS	29.180654000	-24.150482000	29531.000000000
SUKSES 37 KS	29.165037000	-24.120313000	29532.000000000
AMATAVA 41 KS	29.079853000	-24.131418000	29533.000000000
WEENEN 40 KS	29.119530000	-24.158858000	29534.000000000
PLANKNEK 43 KS	29.079247000	-24.174660000	29535.000000000
ORLOGSFONTEIN 45 KS	29.023749000	-24.221831000	29536.000000000
12 KS	29.199336000	-24.044936000	29537.000000000
PIET POTGIETERSRUST TOWN AND TOWNLANDS 44 KS	29.010868000	-24.181426000	29542.000000000
WILDEBEESTFONTEIN 20 KS	29.388809000	-24.049467000	29543.000000000
ZWARTKRANS 38 KS	29.194633000	-24.127766000	29544.000000000
RIETFONTEIN 2 KS	29.004482000	-24.062676000	29551.000000000
ROOIPOORT 46 KS	29.005835000	-24.265804000	29610.000000000
PRUISSEN 48 KS	29.066577000	-24.280608000	29611.000000000
VIER EN TWINTIGRIVIER 56 KS	29.067566000	-24.265950000	29612.000000000
PROSPECT 527 LS	29.028217000	-23.576456000	30594.000000000
POSTCHAASLAG 526 LS	29.000665000	-23.571142000	30595.000000000
JUNO 586 LS	29.033008000	-23.624728000	30596.000000000
OLYMPUS 585 LS	29.071513000	-23.625013000	30597.000000000
CERES 599 LS	29.155936000	-23.683261000	30600.000000000
BACHUS 592 LS	29.107990000	-23.679692000	30601.000000000
CHLOE 587 LS	29.064771000	-23.661687000	30602.000000000
VLAKFONTEIN 588 LS	29.040056000	-23.674297000	30603.000000000
CLOETES DAM 589 LS	29.055567000	-23.693296000	30604.000000000
KORDON 590 LS	29.070077000	-23.708739000	30605.000000000
ZAAIPLAATS 596 LS	29.082415000	-23.741937000	30606.000000000
GOEDE HOOP 595 LS	29.094396000	-23.722141000	30607.000000000
CORNELIA 597 LS	29.119354000	-23.730939000	30608.000000000
ABRAMSFONTEIN 603 LS	29.134696000	-23.744744000	30609.000000000
KOPPIE ENKEL 638 LS	29.115220000	-23.750198000	30610.000000000
ZANDFONTEIN 639 LS	29.093925000	-23.753213000	30611.000000000
ZOMERSFONTEIN 604 LS	29.150971000	-23.750421000	30612.000000000
RAMPIETZIESFONTEIN 598 LS	29.142828000	-23.720396000	30613.000000000
DAMPLAATS 601 LS	29.186792000	-23.715218000	30635.000000000
HELENA 602 LS	29.181473000	-23.741695000	30636.000000000
UITHOEK 641 LS	29.089423000	-23.766597000	30637.000000000

BULTFONTEIN 640 LS	29.102438000	-23.767872000	30638.000000000
UTRECHT 642 LS	29.094313000	-23.780282000	30639.000000000
WASCHBANK 637 LS	29.119062000	-23.770138000	30640.000000000
UITZICHT 635 LS	29.143897000	-23.763642000	30641.000000000
VLAKLAAGTE 636 LS	29.134586000	-23.785455000	30642.000000000
STRYDFONTEIN 643 LS	29.110317000	-23.787060000	30643.000000000
KALKSPRUIT 633 LS	29.166031000	-23.781592000	30644.000000000
CHRISTINA 644 LS	29.096949000	-23.791252000	30645.000000000
ANNA 648 LS	29.083466000	-23.799360000	30646.000000000
EENSGEVONDEN 645 LS	29.110304000	-23.801041000	30647.000000000
COMMISSIEDRIFT 646 LS	29.129613000	-23.799067000	30648.000000000
LANGVERWACHT 647 LS	29.102216000	-23.809539000	30649.000000000
BURLETTA 649 LS	29.075338000	-23.809467000	30650.000000000
BILLINGSGATE 651 LS	29.096784000	-23.823151000	30651.000000000
VENUS 652 LS	29.068008000	-23.835950000	30652.000000000
JUPITER 717 LS	29.021744000	-23.860205000	30653.000000000
BERGZICHT 653 LS	29.142277000	-23.818404000	30654.000000000
WATERPLAATS LOT NO1 711 LS	29.105646000	-23.848761000	30655.000000000
WATERPLAATS 710 LS	29.136462000	-23.867171000	30656.000000000
WATERPLAATS LOT 11 712 LS	29.110068000	-23.875735000	30657.000000000
DIANA LOT1 716 LS	29.064779000	-23.878624000	30658.000000000
MARS 718 LS	29.052382000	-23.896672000	30659.000000000
GLEN ROY 713 LS	29.091933000	-23.900371000	30660.000000000
VAALKOP 656 LS	29.218636000	-23.818702000	30661.000000000
DOORNSPRUIT 655 LS	29.202204000	-23.843895000	30662.000000000
UITVLUGHT 654 LS	29.171219000	-23.851894000	30663.000000000
UITVLUGHT 654 LS	29.171219000	-23.851894000	30664.000000000
NAUWTE 631 LS	29.264667000	-23.827317000	30665.000000000
JAKHALSFONTEIN 657 LS	29.246907000	-23.841718000	30666.000000000
JAKHALSFONTEIN 657 LS	29.246907000	-23.841718000	30667.000000000
VAN TANDERS HOEK 658 LS	29.267589000	-23.846326000	30668.000000000
VAN TANDERS HOEK 658 LS	29.267589000	-23.846326000	30669.000000000
SWEETHOME 659 LS	29.242133000	-23.859855000	30670.000000000
SWEETHOME 659 LS	29.242133000	-23.859855000	30671.000000000
MACHICHAANS LOCATION 709 LS	29.152606000	-23.917946000	30672.000000000
DOORNFONTEIN 724 LS	29.092888000	-23.953378000	30673.000000000
DIANA LOT11 715 LS	29.086396000	-23.873257000	30674.000000000
ZUID BRABANT 719 LS	29.011697000	-23.911912000	30833.000000000
DOORNFONTEIN 721 LS	29.043007000	-23.937968000	30834.000000000
RIETFONTEIN 720 LS	29.014066000	-23.970550000	30835.000000000
AARONSFONTEIN 722 LS	29.065478000	-23.985739000	30836.000000000
ELANDSFONTEIN 725 LS	29.145302000	-23.996416000	30837.000000000
KOPPIE ALLEEN 726 LS	29.171798000	-23.986681000	30838.000000000
DRIEANGLE 728 LS	29.196069000	-23.982914000	30839.000000000
PADDADORS 729 LS	29.209090000	-23.995927000	30840.000000000
SIJFERFONTEIN 733 LS	29.193640000	-23.938939000	30841.000000000
HOLFONTEIN 732 LS	29.209624000	-23.960635000	30842.000000000
RIETFONTEIN 731 LS	29.234462000	-23.973630000	30843.000000000
BULTFONTEIN 730 LS	29.243354000	-23.989361000	30844.000000000
GROENFONTEIN 706 LS	29.236723000	-23.872703000	30845.000000000
KLIPKOPJES 723 LS	29.226686000	-23.889070000	30846.000000000
DIEPLAAGTE 714 LS	29.228062000	-23.908505000	30847.000000000
BRAKSLOOT 734 LS	29.210635000	-23.923031000	30848.000000000
TWEEFONTEIN 705 LS	29.257883000	-23.883776000	30849.000000000
SUIKERBOSCHPLAATS 727 LS	29.171057000	-23.998193000	30850.000000000
BULTFONTEIN 661 LS	29.282416000	-23.848094000	30934.000000000
BULTFONTEIN 661 LS	29.282416000	-23.848094000	30935.000000000
JOHNSTONSRUST 660 LS	29.268119000	-23.862614000	30936.000000000
OSCHATZ 702 LS	29.289214000	-23.868223000	30937.000000000
STERKFONTEIN 698 LS	29.300516000	-23.887778000	30939.000000000
GROOTE DORST 701 LS	29.267974000	-23.899435000	30941.000000000
ONTEVREDEN 700 LS	29.281947000	-23.909885000	30942.000000000
PALMIETGAT 699 LS	29.294991000	-23.920121000	30943.000000000
BOSCHFONTEIN 736 LS	29.257107000	-23.929808000	30944.000000000
DOORNFONTEIN 735 LS	29.244229000	-23.945741000	30945.000000000
SHANHAUZEN 737 LS	29.275078000	-23.966010000	30948.000000000
THORNCastle 741 LS	29.318814000	-23.947130000	30949.000000000
ZANDRIVIER 742 LS	29.361871000	-23.980012000	30950.000000000
UITVAL 693 LS	29.327814000	-23.913657000	30993.000000000
SNYMANSDRIFT 738 LS	29.298054000	-23.990785000	30994.000000000
591 LS	28.993479000	-23.757185000	31006.000000000
VOETPADDRIFT 151 KQ	27.712777000	-24.041993000	31516.000000000
WITFONTEIN 154 KQ	27.742548000	-24.057776000	31517.000000000
DOPPERSFONTEIN 221 KQ	27.818349000	-24.151409000	31533.000000000
HAAKDOORNDRAAI 220 KQ	27.861042000	-24.172697000	31536.000000000
UITVAL 216 KQ	27.910243000	-24.182409000	31537.000000000
BOSCHPOORT 249 KQ	27.942300000	-24.232855000	31540.000000000
DOORNSPRUIT 215 KQ	27.948304000	-24.207813000	31541.000000000
STERKSTROOM 250 KQ	27.990260000	-24.242955000	31542.000000000

ELSERAFIE 214 KQ	28.000230000	-24.217109000	31543.000000000
GROENDRAAI 213 KQ	27.971897000	-24.187947000	31544.000000000
WILDEMAN 210 KQ	27.921639000	-24.124821000	31545.000000000
WATERHOUTBOOM 217 KQ	27.906748000	-24.146269000	31546.000000000
INELKANDER 211 KQ	27.950793000	-24.152774000	31547.000000000
RHENOSTERFONTEIN 179 KQ	27.989308000	-24.146738000	31548.000000000
RHENOSTERFONTEIN 212 KQ	27.999535000	-24.161420000	31549.000000000
WELGEVONDEN 186 KQ	27.814034000	-24.101524000	31550.000000000
GROENFONTEIN 207 KQ	27.833418000	-24.119842000	31551.000000000
KEEROM 208 KQ	27.854607000	-24.106830000	31552.000000000
HANOVER 181 KQ	27.906641000	-24.086267000	31553.000000000
WELGEVONDEN 180 KQ	27.947261000	-24.098179000	31554.000000000
KAFFERFONTEIN 178 KQ	27.971474000	-24.115712000	31555.000000000
DRIEKLOOF 218 KQ	27.868858000	-24.136961000	31556.000000000
GOUDFONTEIN 171 KQ	27.963204000	-24.067066000	31557.000000000
GROOTWATER 176 KQ	27.991922000	-24.077888000	31558.000000000
SCHUINSKLOOF 175 KQ	28.006652000	-24.045079000	31559.000000000
ROODEKOP 172 KQ	27.976591000	-24.032128000	31560.000000000
ROOIFONTEIN 169 KQ	27.952232000	-24.024026000	31561.000000000
DE BOVENEINDE 165 KQ	27.924952000	-24.026028000	31562.000000000
ROODEBANKFONTEIN 164 KQ	27.916583000	-24.019352000	31563.000000000
DINKWENG LODGE 116 KQ	27.892641000	-24.022550000	31564.000000000
MAROELASPOORT 162 KQ	27.878574000	-24.009791000	31565.000000000
CARLSRUHE 155 KQ	27.797925000	-24.017996000	31566.000000000
BUURMANSKLOOF 157 KQ	27.835092000	-24.011956000	31567.000000000
WOODSTOCK 161 KQ	27.806337000	-24.041028000	31568.000000000
ZANDPUT 158 KQ	27.844441000	-24.031476000	31569.000000000
TAMBOTIEPAN 160 KQ	27.848705000	-24.051314000	31570.000000000
WITKOP 167 KQ	27.888759000	-24.047875000	31571.000000000
GOEDGEDACHT 184 KQ	27.850752000	-24.072334000	31572.000000000
DWAALHOEK 185 KQ	27.800874000	-24.083410000	31573.000000000
LAUREL 159 KQ	27.799813000	-24.066182000	31574.000000000
BLINKWATER 177 KQ	27.995076000	-24.117983000	31575.000000000
HELDERDAAGSFONTEIN 442 LR	28.326612000	-23.560819000	33077.000000000
BURGERS VLEI 496 LR	28.351293000	-23.647563000	33078.000000000
STERKFONTEIN 459 LR	28.355490000	-23.617463000	33079.000000000
REPUBLIEK 456 LR	28.400839000	-23.612569000	33080.000000000
KLIPPUT 458 LR	28.387902000	-23.616666000	33081.000000000
MURCHISON 460 LR	28.345538000	-23.586540000	33082.000000000
LEERDAM 443 LR	28.344864000	-23.531418000	33083.000000000
MARKEN 457 LR	28.385673000	-23.577989000	33084.000000000
SCHEVENINGEN 444 LR	28.380509000	-23.541242000	33085.000000000
HOTTENTOTS HOLLAND 538 LR	28.478697000	-23.740819000	33086.000000000
KIRSTENBOS 497 LR	28.419866000	-23.692512000	33087.000000000
GROOTPAN 452 LR	28.454491000	-23.608019000	33088.000000000
UITSPANNING 501 LR	28.480086000	-23.657467000	33089.000000000
KROMME ELLENBOOG 515 LR	28.104531000	-23.640088000	33090.000000000
KLEIN GALAKWIN 712 LR	28.104214000	-23.641410000	33091.000000000
KLIP BANK 713 LR	28.530555000	-23.634157000	33092.000000000
KAFFERBOOM 664 LR	28.541307000	-23.676161000	33093.000000000
RIETFONTEIN 665 LR	28.515297000	-23.587868000	33094.000000000
NELLY 717 LR	28.558721000	-23.600477000	33095.000000000
SCHRIKFONTEIN 715 LR	28.629396000	-23.705544000	33096.000000000
HAAKDOORN DRAAI 711 LR	28.588701000	-23.690403000	33097.000000000
RUIGTEVLEY 710 LR	28.580397000	-23.644181000	33098.000000000
SLAAPKRAAL 661 LR	28.622493000	-23.641026000	33099.000000000
MAGALAKWIN 666 LR	28.580138000	-23.533926000	33100.000000000
STERKWATER 668 LR	28.596901000	-23.590372000	33101.000000000
WELTEVREDEN 667 LR	28.624592000	-23.519975000	33102.000000000
ZEEKOEGAT 673 LR	28.609011000	-23.555794000	33103.000000000
UITZICHT 669 LR	28.633571000	-23.591717000	33104.000000000
NIEUWEDRIFT 672 LR	28.661858000	-23.528271000	33105.000000000
SALEM 671 LR	28.661384000	-23.567136000	33106.000000000
DIEPKUIL 707 LR	28.699300000	-23.553057000	33107.000000000
RYSWYK 706 LR	28.670958000	-23.614686000	33108.000000000
GRASVLY 708 LR	28.717286000	-23.614699000	33109.000000000
RAADSLID 718 LR	28.674923000	-23.650161000	33110.000000000
RHENOSTER TRAP 719 LR	28.652659000	-23.680635000	33111.000000000
STERKLOOP 720 LR	28.700661000	-23.699070000	33112.000000000
BUFFEL HOEK 722 LR	28.715228000	-23.661592000	33113.000000000
HAASPAN 724 LR	28.744897000	-23.704414000	33114.000000000
VAALPENSKRAAL 726 LR	28.777935000	-23.710902000	33115.000000000
HEBRON 727 LR	28.805894000	-23.719176000	33116.000000000
BAVARIA 678 LR	28.831154000	-23.711627000	33117.000000000
BLINKWATER 680 LR	28.796395000	-23.518659000	33118.000000000
WATERFALL 676 LR	28.787034000	-23.564702000	33119.000000000
GALILEA 675 LR	28.738018000	-23.550541000	33120.000000000
TIBERIUS 702 LR	28.732783000	-23.584019000	33121.000000000
	28.751932000	-23.629202000	33122.000000000

VIER EN TWINTIG RIVIER 701 LR	28.784332000	-23.604444000	33123.000000000
MADAMEFONTEIN 721 LR	28.752923000	-23.671499000	33124.000000000
SEIRAPPES 681 LR	28.823354000	-23.568397000	33125.000000000
TENERIFFE 682 LR	28.862347000	-23.519008000	33126.000000000
NON PLUS ULTRA 683 LR	28.873634000	-23.552127000	33127.000000000
BAVIAANSKRANS 659 LR	28.537519000	-23.504505000	33128.000000000
TREVES 677 LR	28.751161000	-23.506633000	33129.000000000
ZANDPUT 714 LR	28.546333000	-23.717615000	33130.000000000
TEVREDENHEID 660 LR	28.511923000	-23.554530000	33131.000000000
GROOTLOOP 662 LR	28.556221000	-23.552774000	33132.000000000
VARK FONTEIN	28.515576000	-23.740723000	33133.000000000
WYD HOEK 746 LR	28.603829000	-23.733941000	33134.000000000
RIPLEY 684 LR	28.928053000	-23.508039000	33135.000000000
SCHAFFHAUSEN 689 LR	28.930006000	-23.543316000	33139.000000000
CROMFORDD 690 LR	28.956827000	-23.546781000	33140.000000000
SOUR APPLE TREE 691 LR	28.964096000	-23.562258000	33141.000000000
WINGFIELD 692 LR	28.984389000	-23.562563000	33142.000000000
LA PUCELLA 693 LR	28.924551000	-23.574814000	33143.000000000
SCHOONGELEGEN 695 LR	28.953397000	-23.617785000	33144.000000000
ALTONA 696 LR	28.898017000	-23.590616000	33145.000000000
LUGE 697 LR	28.874932000	-23.606751000	33146.000000000
HAM 699 LR	28.846497000	-23.622402000	33147.000000000
GILEAD 729 LR	28.856554000	-23.663494000	33148.000000000
ELBERFIELD 731 LR	28.900260000	-23.658975000	33149.000000000
GOEDGEVONDEN 732 LR	28.936058000	-23.645697000	33150.000000000
SARON 704 LR	28.780670000	-23.653230000	33151.000000000
EMAUS 725 LR	28.823977000	-23.675553000	33152.000000000
BELLEVUE 700 LR	28.809875000	-23.636819000	33153.000000000
GIBEON 730 LR	28.856962000	-23.718299000	33154.000000000
CHLUN 735 LR	28.909952000	-23.730145000	33155.000000000
PRAGUE 734 LR	28.941170000	-23.699859000	33156.000000000
TWEESPALK 733 LR	28.903778000	-23.697872000	33157.000000000
EERSTE GELUK 741 LR	28.699567000	-23.734010000	33158.000000000
RETOUR 613 LR	28.020754000	-23.888934000	33159.000000000
RETOUR 613 LR	28.020754000	-23.888934000	33160.000000000
TAMBOTIE RIVIER 619 LR	28.003040000	-23.957114000	33161.000000000
BURGERSPOORT 620 LR	28.050877000	-23.984038000	33162.000000000
WERKENDAM 628 LR	28.101590000	-23.994181000	33163.000000000
WONDERHOOP 562 LR	28.020977000	-23.808873000	33164.000000000
DE DRAAI 612 LR	28.003482000	-23.858372000	33165.000000000
SCHAAFPLAATS 610 LR	28.009317000	-23.876672000	33166.000000000
NYVERHEID 611 LR	28.053726000	-23.846708000	33167.000000000
HOLLAND 563 LR	28.034234000	-23.831998000	33168.000000000
MARIA 564 LR	28.055422000	-23.794651000	33169.000000000
STAR 567 LR	28.093385000	-23.805515000	33170.000000000
GODOLPHIN 566 LR	28.071805000	-23.823310000	33171.000000000
LAUSSONIE 561 LR	28.029352000	-23.779979000	33172.000000000
WOOLWICH 569 LR	28.082466000	-23.783377000	33173.000000000
VARKENFONTEIN 641 LR	28.256718000	-23.998954000	33174.000000000
BOUW LAND 603 LR	28.208699000	-23.903465000	33175.000000000
AKKERVLYT 632 LR	28.189227000	-23.926487000	33176.000000000
SLIEDRECHT 638 LR	28.225392000	-23.958777000	33177.000000000
GRAAFLUST 637 LR	28.241753000	-23.936198000	33178.000000000
KLIPHOEK 636 LR	28.254300000	-23.912625000	33179.000000000
WILDEBOSCHDRIFT 599 LR	28.273420000	-23.889652000	33180.000000000
DOORNLEEGTE 594 LR	28.320957000	-23.894832000	33181.000000000
WELGELEGEN 647 LR	28.320656000	-23.919344000	33182.000000000
LADY GREY 646 LR	28.295179000	-23.937659000	33183.000000000
STERKFONTEIN 644 LR	28.308593000	-23.960827000	33184.000000000
GELUKSFONTEIN 643 LR	28.270248000	-23.974921000	33185.000000000
POERSPRUITDRIFT 651 LR	28.303487000	-23.985974000	33186.000000000
LIBANON 653 LR	28.338447000	-23.995920000	33187.000000000
OVERSPRONG 650 LR	28.352277000	-23.970476000	33188.000000000
VRISCHGEWAAGD 652 LR	28.342788000	-23.950063000	33189.000000000
VRISCHGEWAAGD 649 LR	28.344632000	-23.939966000	33190.000000000
FRISCHGEWAAGD 590 LR	28.372932000	-23.902586000	33191.000000000
MUISVOGELKRAAL 654 LR	28.385702000	-23.975362000	33192.000000000
KWARRIEHOEK 588 LR	28.399540000	-23.928667000	33193.000000000
NEW BELGIUM 608 LR	28.148992000	-23.840978000	33194.000000000
BLINKWATER 604 LR	28.171916000	-23.885372000	33195.000000000
ONSCHULD 568 LR	28.114916000	-23.785349000	33196.000000000
ONGEGUND 598 LR	28.247223000	-23.850366000	33197.000000000
BYUITZOEK 600 LR	28.227954000	-23.879093000	33198.000000000
LANDMANS LUST 595 LR	28.298316000	-23.862567000	33199.000000000
HAAJESVELDT 576 LR	28.320821000	-23.802421000	33200.000000000
DORDRECHT 578 LR	28.370603000	-23.834033000	33201.000000000
MOERDYK 593 LR	28.345044000	-23.866346000	33202.000000000
GORCUM 577 LR	28.365827000	-23.794276000	33203.000000000
DOORNKOM 657 LR	28.445870000	-24.012650000	33204.000000000

BAVIAANSDRAAI 587 LR	28.446894000	-23.938357000	33205.000000000
KWARRIEHOEK 584 LR	28.481181000	-23.896494000	33206.000000000
SLANGFONTEIN 655 LR	28.456607000	-23.969886000	33207.000000000
GEMSBOKFONTEIN 585 LR	28.496205000	-23.934011000	33208.000000000
GEORGE WELLINGTON 810 LR	28.539251000	-23.953415000	33209.000000000
LOLA MONTEZ 796 LR	28.505711000	-23.989503000	33210.000000000
RIETSPRUIT 581 LR	28.416258000	-23.823110000	33211.000000000
RHYNOSTERFONTEIN 583 LR	28.450097000	-23.879748000	33212.000000000
RHENOSTERHOEK 582 LR	28.478607000	-23.834945000	33213.000000000
BIESJESKRAAL 540 LR	28.433100000	-23.772886000	33214.000000000
RIEBEEK WEST 539 LR	28.465134000	-23.789269000	33215.000000000
HOPEFIELD 793 LR	28.519031000	-23.865585000	33216.000000000
DAGGA KRAAL 591 LR	28.412802000	-23.870071000	33217.000000000
JAKHALSKUIL 754 LR	28.596455000	-23.831296000	33218.000000000
SCHUURMANSHOOGTE 792 LR	28.581439000	-23.875170000	33219.000000000
BASTAARDSPAD 790 LR	28.616302000	-23.880917000	33220.000000000
GALAKWYNS STROOM 745 LR	28.616646000	-23.779077000	33221.000000000
DOORNFONTEIN 755 LR	28.646816000	-23.834617000	33222.000000000
	28.694062000	-23.851628000	33223.000000000
VAN WYKSPAN 759 LR	28.702293000	-23.812638000	33224.000000000
PAULUS 743 LR	28.660708000	-23.746889000	33225.000000000
KROMKLOOF 744 LR	28.653511000	-23.794053000	33226.000000000
ZWARTKOP 742 LR	28.722972000	-23.767412000	33227.000000000
SCHOONOORD 786 LR	28.737345000	-23.896047000	33228.000000000
BELLEVUE 808 LR	28.739624000	-23.935392000	33229.000000000
DELAGOA 809 LR	28.748132000	-23.979737000	33230.000000000
MOZAMBIQUE 807 LR	28.779381000	-23.947002000	33231.000000000
DRENTHE 778 LR	28.866068000	-23.913836000	33232.000000000
VAALKOP 819 LR	28.931329000	-24.002883000	33233.000000000
OVERYSEL 815 LR	28.885103000	-23.939460000	33234.000000000
ZWARTFONTEIN 818 LR	28.903133000	-23.971841000	33235.000000000
WITRIVIER 777 LR	28.892015000	-23.892338000	33236.000000000
BLINKWATER 820 LR	28.940679000	-23.948753000	33237.000000000
UTRECHT 776 LR	28.926408000	-23.923105000	33238.000000000
ARMOEDE 823 LR	28.964285000	-23.977721000	33239.000000000
ROOIBOKFONTEIN 821 LR	28.986194000	-23.944025000	33240.000000000
NOORD BRABAND 774 LR	28.974756000	-23.902899000	33241.000000000
ELANDSFONTEIN 760 LR	28.739327000	-23.803109000	33242.000000000
HELLEM BRICKSTEEN 761 LR	28.744185000	-23.846526000	33243.000000000
GOEDE HOOP 762 LR	28.773664000	-23.802878000	33244.000000000
VOGELSTRUISFONTEIN 765 LR	28.820853000	-23.826560000	33245.000000000
ELANDSFONTEIN 766 LR	28.857465000	-23.803727000	33246.000000000
DORSTLAND 768 LR	28.876291000	-23.840184000	33247.000000000
CLEREMONT 738 LR	28.805783000	-23.758079000	33248.000000000
VLAKFONTEIN 763 LR	28.808880000	-23.789174000	33249.000000000
SHILLELAGH 764 LR	28.831345000	-23.782132000	33250.000000000
SHILLELAGH 764 LR	28.831345000	-23.782132000	33251.000000000
HAMBURG 737 LR	28.848380000	-23.770550000	33252.000000000
HOLLAND 782 LR	28.907263000	-23.889333000	33253.000000000
NOORD HOLLAND 775 LR	28.910193000	-23.869777000	33254.000000000
STIRUM 767 LR	28.902077000	-23.821466000	33255.000000000
LUMBERG 769 LR	28.932587000	-23.837333000	33256.000000000
ZUID HOLLAND 773 LR	28.944755000	-23.882077000	33257.000000000
SWERWERSKRAAL 736 LR	28.885562000	-23.753880000	33258.000000000
LUXEMBURG 772 LR	28.971948000	-23.850757000	33259.000000000
KISS-ME-QUICK-AND-GO-MY-HONEY 794 LR	28.542527000	-23.904401000	33260.000000000
SCHOONHOVEN 448 LR	28.459001000	-23.518703000	33330.000000000
VOGELPAN 658 LR	28.502430000	-23.524462000	33331.000000000
MOUNTJOY 182 LR	28.027760000	-23.443802000	33332.000000000
ROZENDAL 204 LR	28.024917000	-23.478670000	33333.000000000
BEAUFORT 202 LR	28.052896000	-23.452402000	33334.000000000
OMEGA 205 LR	28.047509000	-23.442848000	33335.000000000
MOUNTJOY 180 LR	28.030820000	-23.431184000	33336.000000000
SAMARIA 207 LR	28.045475000	-23.497310000	33337.000000000
TRENT 209 LR	28.083430000	-23.481992000	33338.000000000
KILLARNEY 210 LR	28.096934000	-23.495265000	33339.000000000
JOHANNESBERG 208 LR	28.071621000	-23.463434000	33340.000000000
NECKAR 183 LR	28.090078000	-23.436288000	33341.000000000
OLIFANTSDRIFT 172 LR	28.063535000	-23.393366000	33342.000000000
MARTINIQUE 171 LR	28.073713000	-23.417978000	33347.000000000
ABBOTTSPOORT 201 LR	28.119162000	-23.450487000	33352.000000000
ST. HELENA 212 LR	28.137151000	-23.474603000	33353.000000000
HARRY SMITH 200 LR	28.181444000	-23.449905000	33354.000000000
DISAPPOINTMENT 170 LR	28.112438000	-23.409088000	33356.000000000
EVERYWHERE 184 LR	28.163814000	-23.417563000	33359.000000000
WAGENERSVLEY 165 LR	28.147612000	-23.389042000	33360.000000000
OTHERWORLD 213 LR	28.188840000	-23.480838000	33361.000000000
GOOD NATURE 434 LR	28.193710000	-23.503861000	33362.000000000
GOOD NATURE 434 LR	28.193710000	-23.503861000	33363.000000000

WEMMERSVLEI 185 LR	28.227711000	-23.423546000	33364.000000000
TURFLAAGTE 214 LR	28.258150000	-23.474960000	33365.000000000
GROOTWATER 436 LR	28.236062000	-23.501435000	33366.000000000
HARD TIMES 162 LR	28.191191000	-23.389922000	33368.000000000
DEW DROP 161 LR	28.229533000	-23.382749000	33371.000000000
EULALIE 186 LR	28.290374000	-23.424561000	33377.000000000
ROOIBOKPAN 216 LR	28.273177000	-23.500159000	33378.000000000
DEUGDZAAMHEID 197 LR	28.308808000	-23.450089000	33379.000000000
EARLY MORN 215 LR	28.299715000	-23.493226000	33380.000000000
TIEL 218 LR	28.326938000	-23.490633000	33381.000000000
MORNING STAR 156 LR	28.285837000	-23.398706000	33382.000000000
PRETORIUS MYN 157 LR	28.278425000	-23.373763000	33383.000000000
	28.332368000	-23.366905000	33386.000000000
STINKKRAAL 195 LR	28.358926000	-23.451836000	33387.000000000
FAIRFIELD 219 LR	28.360444000	-23.489586000	33388.000000000
GOEDGELEGEN 194 LR	28.409583000	-23.432526000	33389.000000000
WATERVAL 151 LR	28.364686000	-23.353339000	33390.000000000
PAALKRAAL 152 LR	28.344999000	-23.394173000	33391.000000000
MORGENROOD 187 LR	28.345752000	-23.418907000	33392.000000000
KLIPFONTEIN 188 LR	28.395278000	-23.410865000	33393.000000000
BUUREN 148 LR	28.407730000	-23.377488000	33394.000000000
WESTLAND 193 LR	28.452071000	-23.425836000	33402.000000000
BUFFELSFONTEIN 220 LR	28.417240000	-23.463786000	33403.000000000
WITPAN 447 LR	28.433810000	-23.493728000	33404.000000000
ROODEPAN 223 LR	28.472646000	-23.462898000	33405.000000000
KOPERMYN 147 LR	28.457575000	-23.386960000	33409.000000000
HAAKDOORNPAN 192 LR	28.487378000	-23.401477000	33410.000000000
BEVERWYK 406 LR	28.504446000	-23.426567000	33411.000000000
GRAS VLEI 409 LR	28.504809000	-23.482914000	33412.000000000
	28.508431000	-23.364403000	33413.000000000
SCHLESING 176 LR	28.012429000	-23.400787000	33416.000000000
GRAAF REINET 203 LR	28.008970000	-23.449937000	33420.000000000
PIETERMANN OR ZANDHOEK	28.390354000	-23.507979000	33421.000000000
445 LR	28.388974000	-23.509470000	33422.000000000
VERGENOEGD 405 LR	28.534731000	-23.434504000	33423.000000000
ELANDBOSCH 404 LR	28.569714000	-23.440425000	33424.000000000
BAINES KLOOF 410 LR	28.565720000	-23.483039000	33425.000000000
GROOTVLEY 413 LR	28.612026000	-23.492437000	33429.000000000
VLEY PAN 411 LR	28.609495000	-23.467385000	33430.000000000
MAGALAKWINSTROOM 401 LR	28.645350000	-23.426882000	33431.000000000
ELIM 383 LR	28.577064000	-23.399963000	33433.000000000
STEIL WATER 385 LR	28.617976000	-23.407791000	33434.000000000
MAGALAKWIN 414 LR	28.655426000	-23.457262000	33437.000000000
GALAKWIN 415 LR	28.675268000	-23.478858000	33438.000000000
VERSTOOTELING 670 LR	28.694159000	-23.503653000	33439.000000000
MULHEIM 416 LR	28.718970000	-23.465449000	33440.000000000
PREEZBURG 400 LR	28.692047000	-23.424616000	33441.000000000
MONTE CHRISTO 388 LR	28.670303000	-23.400216000	33443.000000000
LENNES 417 LR	28.738686000	-23.446013000	33457.000000000
MATTANAU 398 LR	28.782240000	-23.439724000	33458.000000000
EMIGRATION 419 LR	28.786266000	-23.472565000	33459.000000000
WISCONSIN 420 LR	28.833837000	-23.489836000	33464.000000000
NONNENWERTH 421 LR	28.899475000	-23.497341000	33472.000000000
WELGEVONDEN 449 LR	28.422449000	-23.539243000	33486.000000000
GOUDA 453 LR	28.430191000	-23.571702000	33487.000000000
GOEDBEVONDEN 454 LR	28.423602000	-23.605921000	33488.000000000
VIANEN 450 LR	28.469949000	-23.572805000	33489.000000000
SCHURWEPOORT 502 LR	28.493277000	-23.689867000	33490.000000000
LAGER PLAATS 451 LR	28.493008000	-23.619452000	33491.000000000
ALTEFRAAI 425 LR	28.008139000	-23.508828000	33492.000000000
VILLA NORA 428 LR	28.104834000	-23.509286000	33493.000000000
ARNHEM 432 LR	28.148602000	-23.512095000	33494.000000000
DE HOOP 525 LR	28.025017000	-23.716145000	33495.000000000
STERKWATER 560 LR	28.012552000	-23.756900000	33496.000000000
SPEKTAKEL 526 LR	28.052163000	-23.712161000	33497.000000000
NORFOLK 559 LR	28.043535000	-23.745512000	33498.000000000
RICHMOND 527 LR	28.081021000	-23.705959000	33499.000000000
HANOVER 555 LR	28.094584000	-23.727339000	33500.000000000
DUNA 554 LR	28.102324000	-23.757670000	33501.000000000
ADELAIDE 557 LR	28.070294000	-23.759581000	33502.000000000
PAARL 482 LR	28.026470000	-23.638252000	33503.000000000
GEORGE IV 523 LR	28.008064000	-23.678840000	33504.000000000
KATBERG 481 LR	27.998798000	-23.646651000	33505.000000000
CORNWALL 477 LR	28.011649000	-23.560297000	33506.000000000
AMSTERDAM 479 LR	28.012952000	-23.587974000	33507.000000000
ONLUST 480 LR	28.017917000	-23.613576000	33508.000000000
NYVERHEID 484 LR	28.053277000	-23.629666000	33509.000000000
WYNBERG 521 LR	28.056577000	-23.655111000	33510.000000000
DURBAN 522 LR	28.030826000	-23.663905000	33511.000000000

BOSCHDRAAI 524 LR	28.040598000	-23.687535000	33512.000000000
ORGELDRIFT 485 LR	28.079702000	-23.620267000	33513.000000000
BOUWLUST 516 LR	28.084145000	-23.647942000	33514.000000000
MONTAGUE 817 LR	28.075316000	-23.682500000	33515.000000000
GOTHA 816 LR	28.090397000	-23.667142000	33516.000000000
WELLUST 426 LR	28.033004000	-23.526784000	33517.000000000
GOA 427 LR	28.065442000	-23.515233000	33518.000000000
STILSTROOM 476 LR	28.049014000	-23.548251000	33519.000000000
STERKLOOP 478 LR	28.043272000	-23.578382000	33520.000000000
BAINS HOFF 483 LR	28.045147000	-23.603652000	33521.000000000
UYEN VLEY 430 LR	28.082424000	-23.537350000	33522.000000000
PIC VAN TENERIFFE 470 LR	28.102466000	-23.557854000	33523.000000000
PATTATE VLEY 473 LR	28.072731000	-23.568384000	33524.000000000
AUTHORITEIT 472 LR	28.076451000	-23.593408000	33525.000000000
KLAVERVLEY 529 LR	28.134891000	-23.700523000	33526.000000000
BEAUFORT 550 LR	28.120184000	-23.719373000	33527.000000000
VICTORIA 552 LR	28.125693000	-23.740978000	33528.000000000
EYZERBEEN 553 LR	28.135908000	-23.761635000	33529.000000000
DRAKENSBERG 549 LR	28.147630000	-23.715236000	33530.000000000
CALEDON 547 LR	28.180691000	-23.722011000	33531.000000000
ZWELLENDAAM 548 LR	28.157765000	-23.747081000	33532.000000000
GEORGE TOWN 532 LR	28.206428000	-23.704964000	33533.000000000
BUFFELSKRAAL 486 LR	28.105410000	-23.612039000	33534.000000000
HOPE TOWN 513 LR	28.136806000	-23.631540000	33535.000000000
ROBERTSON 518 LR	28.119609000	-23.656076000	33536.000000000
KLAVERVLEY 530 LR	28.129010000	-23.684179000	33537.000000000
SWEA 528 LR	28.104930000	-23.696737000	33538.000000000
OVER YSSEL 512 LR	28.147660000	-23.653727000	33539.000000000
JOHANNISBERG 509 LR	28.173079000	-23.682905000	33540.000000000
VISCHGAT 490 LR	28.179532000	-23.619425000	33541.000000000
SONKWA STAD 471 LR	28.105093000	-23.583890000	33542.000000000
KROONSTAD 468 LR	28.143182000	-23.577656000	33543.000000000
CLERMONT 429 LR	28.113927000	-23.526733000	33544.000000000
BALLYMORE 433 LR	28.145879000	-23.547410000	33545.000000000
KAAPSVLAKE 488 LR	28.156082000	-23.601184000	33546.000000000
NACHTWACHT 492 LR	28.214390000	-23.655149000	33547.000000000
MORGENZON 491 LR	28.200361000	-23.637832000	33548.000000000
RIETVALEY 464 LR	28.252638000	-23.606869000	33549.000000000
GROENEFONTEIN 494 LR	28.237705000	-23.668524000	33550.000000000
WELTEVREDEN 508 LR	28.240278000	-23.697642000	33551.000000000
REWARD 435 LR	28.193754000	-23.537684000	33552.000000000
VLAKPAN 467 LR	28.187946000	-23.568158000	33553.000000000
KLIPPAN 469 LR	28.230830000	-23.559279000	33554.000000000
ZWARTBULT 466 LR	28.241190000	-23.580476000	33555.000000000
GROOT DENTEREN 533 LR	28.273006000	-23.741823000	33556.000000000
ALEM 544 LR	28.304757000	-23.764303000	33557.000000000
LHEA 534 LR	28.324067000	-23.727425000	33558.000000000
MOOIMEISJESFONTEIN 536 LR	28.368445000	-23.723721000	33559.000000000
LITH 541 LR	28.372971000	-23.759653000	33560.000000000
DIEP SPRUIT 463 LR	28.275027000	-23.635453000	33561.000000000
ALKANTRANT 535 LR	28.295696000	-23.698439000	33562.000000000
KLEIN DENTEREN 495 LR	28.289893000	-23.667321000	33563.000000000
UITKOMST 507 LR	28.267593000	-23.682566000	33564.000000000
LILIE FONTEIN 506 LR	28.335259000	-23.679889000	33565.000000000
GROBBELAARS HOEK 462 LR	28.313384000	-23.623494000	33566.000000000
WILLOWMORE 439 LR	28.269252000	-23.563899000	33567.000000000
SMITSWINKEL 438 LR	28.278307000	-23.526585000	33568.000000000
GOEDGEDACHT 461 LR	28.296105000	-23.592982000	33569.000000000
EASTLAND 441 LR	28.304874000	-23.537172000	33570.000000000
ST ETIENNE 798 LR	28.542464000	-23.987545000	33880.000000000
SCHILPADKRAAL 799 LR	28.576658000	-23.936352000	33881.000000000
OLIFANTSKLIP 801 LR	28.620282000	-23.930003000	33882.000000000
VERDOORNSDRAAI 803 LR	28.636927000	-23.959401000	33883.000000000
KLIPFONTEIN 797 LR	28.599719000	-23.984742000	33884.000000000
APPINGENDAM 805 LR	28.673136000	-23.991296000	33885.000000000
APPINGENDAM 805 LR	28.673136000	-23.991296000	33886.000000000
HERMANSDAL 789 LR	28.649344000	-23.892279000	33887.000000000
LEYDEN 804 LR	28.678500000	-23.934794000	33888.000000000
EYSSELLSDRIFT 788 LR	28.679614000	-23.894466000	33889.000000000
ECKSTEIN 806 LR	28.709785000	-23.965332000	33890.000000000
ECKSTEIN 806 LR	28.709785000	-23.965332000	33891.000000000
KLIPLAATDRIFT 787 LR	28.710276000	-23.912633000	33892.000000000
ZUURFONTEIN 749 LR	28.554107000	-23.760116000	33893.000000000
LUSTHOF 752 LR	28.554127000	-23.796140000	33894.000000000
ST. GEORGE 753 LR	28.548581000	-23.830423000	33895.000000000
VLIEGEKRAAL 783 LR	28.779721000	-23.875341000	33896.000000000
MALOKONG 784 LR	28.787818000	-23.842628000	33897.000000000
MALOKONGSKOP 780 LR	28.850911000	-23.860409000	33898.000000000
GRONINGEN 779 LR	28.838188000	-23.900293000	33899.000000000

VRIESLAND 781 LR	28.800387000	-23.909438000	33900.000000000
INHAMBANE 802 LR	28.814927000	-23.926692000	33901.000000000
MOORDKOPJE 813 LR	28.844118000	-23.952537000	33902.000000000
MOLENDRAAI 811 LR	28.808245000	-23.967606000	33903.000000000
ZWARTFONTEIN 814 LR	28.863036000	-23.985503000	33904.000000000
BAKLIJ PLAATS 751 LR	28.506793000	-23.800801000	33905.000000000
VLAK FONTEIN 739 LR	28.759311000	-23.745590000	33908.000000000
SALTPETERWATER ALIAS MIMOSA 382 LR	28.541891000	-23.382659000	33909.000000000
NEW BELGUIM 608 LR	28.541886000	-23.384013000	33910.000000000
MIDDELFONTEIN 663 LQ	28.205253000	-23.995696000	33911.000000000
KAFFER FONTEIN 662 LQ	27.986689000	-23.984765000	34076.000000000
ROOIPOORT 660 LQ	27.973109000	-23.971601000	34077.000000000
BOTTEL FONTEIN 659 LQ	27.946582000	-23.987898000	34078.000000000
GOUDEFONTEIN 657 LQ	27.929935000	-23.983679000	34079.000000000
YZERFONTEIN 656 LQ	27.914217000	-23.977724000	34080.000000000
WONDERBOOMSHOEK 626 LQ	27.901292000	-23.967430000	34081.000000000
DANSFONTEIN 625 LQ	27.894923000	-23.953064000	34082.000000000
DONKERHOEK 615 LQ	27.890435000	-23.938399000	34083.000000000
VOORSTANDFONTEIN 622 LQ	27.880643000	-23.927221000	34084.000000000
TAMBOOTIEFONTEIN 624 LQ	27.941204000	-23.938097000	34085.000000000
SCHURFBANKSHOEK 658 LQ	27.933571000	-23.922588000	34086.000000000
BERGSIG 598 LQ	27.947596000	-23.955053000	34087.000000000
SWARTKRANS 603 LQ	27.873592000	-23.913394000	34088.000000000
ZOETFONTEIN 612 LQ	27.845853000	-23.905615000	34089.000000000
DRONKFONTEIN 611 LQ	27.826732000	-23.895471000	34090.000000000
RHENOSTERHOEK 609 LQ	27.803325000	-23.889645000	34091.000000000
ROODEBOKHOEK 617 LQ	27.788477000	-23.871870000	34092.000000000
ROODEPUNT 590 LQ	27.912352000	-23.902591000	34093.000000000
GROOTFONTEIN 589 LQ	27.901431000	-23.883152000	34094.000000000
BANKFONTEIN 576 LQ	27.887927000	-23.853479000	34095.000000000
WELTEVREDEN 596 LQ	27.872664000	-23.828442000	34096.000000000
TAMBOTIEVALLEI 595 LQ	27.813111000	-23.844635000	34097.000000000
WATERVAL 594 LQ	27.861455000	-23.872472000	34098.000000000
KLIPKRAAL 621 LQ	27.843407000	-23.861001000	34099.000000000
HOUTKLOOF 620 LQ	27.984890000	-23.921356000	34100.000000000
UITVLUGT 619 LQ	27.970976000	-23.911080000	34101.000000000
WELTEVREDEN 618 LQ	27.960079000	-23.892774000	34102.000000000
GELUK 588 LQ	27.949711000	-23.876349000	34103.000000000
SEVILLE 587 LQ	27.936290000	-23.862298000	34104.000000000
VENTERSHOEK 579 LQ	27.934092000	-23.841581000	34105.000000000
VLEYPLAAS 578 LQ	27.926778000	-23.821367000	34106.000000000
SCHANSKRAAL 575 LQ	27.913338000	-23.803544000	34107.000000000
GROOTWATER 628 LQ	27.847390000	-23.819938000	34108.000000000
HOOIKRAAL 586 LQ	27.827111000	-23.933121000	34109.000000000
NELLY 585 LQ	27.985355000	-23.847387000	34110.000000000
CALEDONIA 583 LQ	27.981635000	-23.829508000	34111.000000000
JONKERSHOEK 580 LQ	27.971281000	-23.814497000	34112.000000000
BOUWLUST 566 LQ	27.952699000	-23.794355000	34113.000000000
ZOUTFONTEIN 569 LQ	27.929421000	-23.753461000	34114.000000000
BROEDERSCHAP 581 LQ	27.936248000	-23.772606000	34115.000000000
BELLEVUE 582 LQ	27.981292000	-23.773037000	34116.000000000
DUIKER RIVIER 568 LQ	27.990197000	-23.793351000	34117.000000000
POESKOPSRIFT 545 LQ	27.969375000	-23.754720000	34118.000000000
BLAKENEY 570 LQ	27.908383000	-23.737533000	34119.000000000
DWARFONTEIN 571 LQ	27.896128000	-23.777107000	34120.000000000
OVERBEETJESPOORT 623 LQ	27.869237000	-23.793751000	34121.000000000
PIERIESFONTEIN 572 LQ	27.850268000	-23.773633000	34122.000000000
CREMARTARDFONTEIN 563 LQ	27.827387000	-23.795907000	34123.000000000
RIETFONTEIN 573 LQ	27.818058000	-23.754546000	34124.000000000
BERGFONTEIN 574 LQ	27.797006000	-23.790930000	34125.000000000
VYGEBOOMSPPOORT 560 LQ	27.802390000	-23.815620000	34126.000000000
ZANDRIVIER 559 LQ	27.752815000	-23.810734000	34127.000000000
ZEEKOEGAT 543 LQ	27.751606000	-23.782491000	34128.000000000
RIVERS BEND 591 LQ	27.739660000	-23.767460000	34129.000000000
GRAFTON 565 LQ	27.773443000	-23.758949000	34130.000000000
DNYALA 675 LQ	27.876307000	-23.755511000	34131.000000000
WONDERBOOMHOEK 550 LQ	27.739893000	-23.754922000	34132.000000000
RUSMYSIEL 577 LQ	27.720155000	-23.760344000	34133.000000000
REIVILO 661 LQ	27.719813000	-23.779753000	34134.000000000
BOSCHPOORT 551 LQ	27.693774000	-23.776981000	34135.000000000
GROOTVLEI 558 LQ	27.666425000	-23.781231000	34136.000000000
BOSCHPOORT 551 LQ	27.702905000	-23.806258000	34137.000000000
ZEELAND 521 LQ	27.689185000	-23.757594000	34138.000000000
PIQUETBERG 523 LQ	27.647889000	-23.753230000	34139.000000000
GOEDEHOOP 552 LQ	27.678103000	-23.740245000	34140.000000000
FOURIESKLOOF 557 LQ	27.608182000	-23.800465000	34141.000000000
AFGUNST 562 LQ	27.648692000	-23.824663000	34142.000000000
VILJOENSKLOOF 600 LQ	27.692326000	-23.842642000	34143.000000000
	27.738624000	-23.853164000	34144.000000000

SINGALELA 605 LQ	27.729745000	-23.870962000	34145.000000000
BAVIAANSHOEK 599 LQ	27.771904000	-23.869476000	34146.000000000
FANCY OR SCIEDAM 518 LQ	27.596626000	-23.766339000	34147.000000000
GROOTVALLEI 515 LQ	27.547692000	-23.757695000	34148.000000000
WELLINGTON 519 LQ	27.600335000	-23.738463000	34149.000000000
PRETORIUSKLOOF 553 LQ	27.566581000	-23.802631000	34151.000000000
RIETGAT 554 LQ	27.558085000	-23.834430000	34152.000000000
FANCY 556 LQ	27.620081000	-23.860225000	34156.000000000
WATERVAL 601 LQ	27.672446000	-23.874565000	34157.000000000
STERKFontein 642 LQ	27.633792000	-23.953529000	34166.000000000
TOULON 643 LQ	27.653164000	-23.962920000	34167.000000000
GOEDGEDACHT 602 LQ	27.615478000	-23.894994000	34169.000000000
MARULASFontein 634 LQ	27.658087000	-23.917315000	34170.000000000
WOLVENFontein 645 LQ	27.682216000	-23.974634000	34171.000000000
SMITSFontein 633 LQ	27.699936000	-23.915354000	34172.000000000
SPRUYTSKLOOF 606 LQ	27.726230000	-23.895696000	34173.000000000
BRAKFontein 632 LQ	27.738675000	-23.932933000	34174.000000000
KOEDOESFontein 631 LQ	27.760681000	-23.951179000	34175.000000000
WILDEBEESTFontein 648 LQ	27.756289000	-23.971328000	34176.000000000
ALNESS 650 LQ	27.783462000	-23.990136000	34177.000000000
MALMANIES RIVIER 649 LQ	27.747399000	-23.999571000	34178.000000000
BAVIAANSFontein 608 LQ	27.765458000	-23.912206000	34179.000000000
WITKOP 613 LQ	27.794622000	-23.918093000	34180.000000000
ZOETLEEGTE 630 LQ	27.797262000	-23.947120000	34181.000000000
ROOIHOOGTE 652 LQ	27.803111000	-23.964061000	34182.000000000
GROOTEVLAKTE 653 LQ	27.814724000	-23.983235000	34183.000000000
ELANDSFontein 629 LQ	27.842061000	-23.957818000	34184.000000000
GROOTVALLEY 654 LQ	27.851215000	-23.977003000	34185.000000000
HIEROMTRENT 460 LQ	27.517205000	-23.694237000	34529.000000000
KAFFIRSDRAAI 513 LQ	27.523660000	-23.729989000	34564.000000000
EENZAAMHEID 512 LQ	27.522614000	-23.711211000	34565.000000000
KUIPERSBULT 511 LQ	27.560065000	-23.724496000	34566.000000000
NAAUW ONTKOMEN 509 LQ	27.564339000	-23.701675000	34567.000000000
TURFVLAKTE 463 LQ	27.565229000	-23.682891000	34568.000000000
ENKELBULT 462 LQ	27.552532000	-23.665497000	34569.000000000
APPELVLAKTE 448 LQ	27.580063000	-23.633200000	34572.000000000
NELSONSKOP 464 LQ	27.591314000	-23.652833000	34573.000000000
GROOTESTRYD 465 LQ	27.603544000	-23.673356000	34574.000000000
HANGLIP 508 LQ	27.600718000	-23.692595000	34575.000000000
ZWARTWATER 507 LQ	27.601302000	-23.714057000	34576.000000000
ZONDEWATER 442 LQ	27.653057000	-23.574086000	34579.000000000
VAN WYKS PAN 441 LQ	27.665343000	-23.597216000	34580.000000000
SHOT BELT 438 LQ	27.694756000	-23.558202000	34582.000000000
HOORNBOSCH 439 LQ	27.706246000	-23.583202000	34583.000000000
LITH 412 LQ	27.727800000	-23.519166000	34584.000000000
ALEM 414 LQ	27.732012000	-23.547562000	34585.000000000
LHEA 437 LQ	27.744311000	-23.571060000	34586.000000000
QUAINA 413 LQ	27.754539000	-23.514925000	34587.000000000
MOOTCHOOASELY 415 LQ	27.761162000	-23.538448000	34588.000000000
MAHALASELY 435 LQ	27.777922000	-23.561173000	34589.000000000
VUCHT 436 LQ	27.777256000	-23.585854000	34590.000000000
BERG-EN-DALEN 417 LQ	27.792349000	-23.531937000	34591.000000000
MELKBOSCHKRAAL 431 LQ	27.804227000	-23.551319000	34592.000000000
WELLINGTON 432 LQ	27.826575000	-23.569525000	34593.000000000
UITKYK 476 LQ	27.847300000	-23.585320000	34594.000000000
GROOTFontein 478 LQ	27.852028000	-23.600424000	34595.000000000
JACOBS LOOP 477 LQ	27.834880000	-23.618364000	34596.000000000
GROOTFontein 479 LQ	27.875682000	-23.612320000	34597.000000000
HALBOSRUST 497 LQ	27.865327000	-23.638371000	34598.000000000
UITERSTE 475 LQ	27.804932000	-23.609598000	34599.000000000
RONDEBOSCHJE 429 LQ	27.867329000	-23.558440000	34600.000000000
PENTON-VILLA 430 LQ	27.841128000	-23.541513000	34601.000000000
FORFARSHIRE 419 LQ	27.824008000	-23.522674000	34602.000000000
BILLARDS 428 LQ	27.873702000	-23.533751000	34603.000000000
HONNINGSHADE 427 LQ	27.899427000	-23.521891000	34604.000000000
GROOTGENOEG 426 LQ	27.916236000	-23.541560000	34605.000000000
WELTEVREDEN 482 LQ	27.925910000	-23.562367000	34606.000000000
GARIBALDI 480 LQ	27.884317000	-23.577616000	34607.000000000
MIDDELBOOMSPUNT 425 LQ	27.951101000	-23.531468000	34608.000000000
MARIQUA 424 LQ	27.979210000	-23.521045000	34609.000000000
TAMAHAS 485 LQ	27.986891000	-23.539664000	34610.000000000
ALOMFRAAI 484 LQ	27.965528000	-23.550047000	34611.000000000
FAURES MITH 487 LQ	27.977212000	-23.573035000	34612.000000000
PRETORIA 483 LQ	27.940766000	-23.584514000	34613.000000000
WOLVENDRAAI 481 LQ	27.903504000	-23.596351000	34614.000000000
MARSEILLES 496 LQ	27.891109000	-23.627398000	34615.000000000
GOOD-HOPE 492 LQ	27.921863000	-23.618184000	34616.000000000
MONICO 416 LQ	27.786933000	-23.507661000	34664.000000000
MATHEEBEYLAI 197 LQ	27.792335000	-23.482139000	34665.000000000

KROMHOEK 193 LQ	27.923605000	-23.436956000	34747.000000000
HILTON 190 LQ	27.982915000	-23.409353000	34750.000000000
GAYLAD 208 LQ	27.981171000	-23.439272000	34751.000000000
PARADYS 209 LQ	27.979914000	-23.468736000	34752.000000000
SCHOONZICHT 192 LQ	27.954033000	-23.421767000	34753.000000000
NIEUWE HOLLAND 206 LQ	27.953252000	-23.449868000	34754.000000000
EERSTEVLEY 204 LQ	27.922394000	-23.462288000	34755.000000000
FRANSCHHOEK 207 LQ	27.950512000	-23.478887000	34756.000000000
TROMPETTERSFONTEIN 422 LQ	27.973471000	-23.496191000	34757.000000000
SEBRIGHT 205 LQ	27.920912000	-23.488417000	34758.000000000
STELLENBOSCH 203 LQ	27.8231157000	-23.495462000	34759.000000000
NEWCASTLE 202 LQ	27.892987000	-23.475920000	34760.000000000
SCHATPLAATS 194 LQ	27.890075000	-23.450981000	34761.000000000
WELLINGTON 199 LQ	27.859235000	-23.471046000	34762.000000000
WALKERSKLOOF 196 LQ	27.825935000	-23.475566000	34763.000000000
RAMUSIO 418 LQ	27.823312000	-23.495111000	34764.000000000
BARBOSA 201 LQ	27.859377000	-23.493108000	34765.000000000
STUTGARD 420 LQ	27.857657000	-23.508217000	34766.000000000
BOTMANSDRIFT 423 LQ	27.928729000	-23.510606000	34767.000000000
OLIFANTSHOEK 655 LQ	27.860760000	-23.992790000	34795.000000000
WITBANK 647 LQ	27.716768000	-23.967564000	34796.000000000
WITBANK 651 LQ	27.725499000	-24.005084000	34797.000000000
SWARTHOEK 597 LQ	27.766165000	-23.834799000	34799.000000000
111 KR	28.378590000	-24.179296000	34916.000000000
129 KR	28.287941000	-24.281697000	34954.000000000
162	28.418673000	-24.385848000	35017.000000000
168 KR	28.495369000	-24.293623000	35029.000000000
174	28.437789000	-24.388549000	35043.000000000
185	27.792794000	-24.100197000	35069.000000000
GELYK 491 LQ	27.953073000	-23.608101000	35128.000000000
ROTTERDAM 488 LQ	27.983814000	-23.598445000	35129.000000000
PORTLOCK 489 LQ	27.986338000	-23.623812000	35130.000000000
NEWYORK 490 LQ	27.956998000	-23.634320000	35131.000000000
WINDSOR-CASTLE 493 LQ	27.927641000	-23.643103000	35132.000000000
TOULON 495 LQ	27.893160000	-23.654491000	35133.000000000
SUNNYSIDE 532 LQ	27.852235000	-23.681394000	35134.000000000
WINDSOR 499 LQ	27.830644000	-23.665163000	35135.000000000
GRIETAS-VLAKE 500 LQ	27.811398000	-23.649777000	35136.000000000
CRADOCK 534 LQ	27.913376000	-23.673733000	35137.000000000
SMITHSFIELD 536 LQ	27.952577000	-23.668765000	35138.000000000
VRYHEID 537 LQ	27.979139000	-23.660425000	35139.000000000
CAROLINA 538 LQ	27.976592000	-23.694858000	35140.000000000
SPIDER 535 LQ	27.926127000	-23.693447000	35141.000000000
DUIKERFONTEIN 542 LQ	27.981954000	-23.714455000	35142.000000000
UITVLUCHT 567 LQ	28.002196000	-23.736706000	35143.000000000
RIVIERPLAATS 541 LQ	27.952279000	-23.737592000	35144.000000000
RIVIERPLAAS 610 LQ	27.941989000	-23.722785000	35145.000000000
SAKSENBERG 604 LQ	27.943298000	-23.709523000	35146.000000000
ANNEXATIE 544 LQ	27.888241000	-23.718900000	35147.000000000
RENDEZVOUS 533 LQ	27.870209000	-23.699929000	35148.000000000
PEVERIL 546 LQ	27.852538000	-23.735910000	35149.000000000
BUFFELSHOEK 548 LQ	27.801483000	-23.735678000	35150.000000000
BISMARCK 547 LQ	27.823836000	-23.720801000	35151.000000000
LEENIE 531 LQ	27.804516000	-23.707216000	35152.000000000
OTHILLIA 530 LQ	27.791594000	-23.690912000	35153.000000000
DROOGEHEUVEL 447 LQ	27.625342000	-23.615298000	35154.000000000
ZONGEZIEN 467 LQ	27.639268000	-23.635065000	35155.000000000
KALKFONTEIN 468 LQ	27.679448000	-23.618186000	35156.000000000
PEERBOOM 466 LQ	27.651968000	-23.654836000	35157.000000000
WELGELEGEN 469 LQ	27.692165000	-23.640219000	35158.000000000
EENDRACHT 505 LQ	27.651463000	-23.675553000	35159.000000000
GROOTHOEK 504 LQ	27.693160000	-23.661740000	35160.000000000
MOORDDRIFT 470 LQ	27.718437000	-23.604998000	35161.000000000
GORKUM 473 LQ	27.773236000	-23.611478000	35162.000000000
RIETSPRUIT 527 LQ	27.758319000	-23.658638000	35163.000000000
WERKENDAM 474 LQ	27.779114000	-23.645227000	35164.000000000
TOUWFONTEIN 528 LQ	27.761396000	-23.700647000	35165.000000000
SCHAAPPLAATS 524 LQ	27.722200000	-23.703444000	35166.000000000
PAARL 522 LQ	27.682866000	-23.711251000	35167.000000000
EHRENBREITSTEIN 525 LQ	27.724958000	-23.722940000	35168.000000000
SCHAAP KRAAL 211 LQ	27.998231000	-23.487998000	35169.000000000
WITBANK 647 LQ	27.725122000	-24.019862000	35170.000000000
DE HOOP 584 LQ	28.008291000	-23.715299000	35171.000000000
DUIKERFONTEIN 539 LQ	27.982918000	-23.728724000	35172.000000000
ONVERWACHT 503 LQ	27.685717000	-23.686929000	35173.000000000
WATERKLOOF 502 LQ	27.726702000	-23.677661000	35174.000000000
HERMANUSDOORNS 205 KQ	27.780736000	-24.117469000	35364.000000000
HERMANUSDOORNS 204 KQ	27.753327000	-24.099828000	35365.000000000
VREDE 304 KR	28.861621000	-24.321484000	35383.000000000

286 KR	28.803885000	-24.251187000	35450.000000000
306 KR	28.670866000	-24.295566000	35495.000000000
249 KR	28.768980000	-24.219392000	35875.000000000
251 KR	28.738573000	-24.158499000	35880.000000000
280 KR	28.810857000	-24.252598000	35931.000000000
NOOITGEDACHT 167 KR	28.450093000	-24.307977000	36506.000000000
NOOITGEDACHT 50 KR	28.357452000	-24.094503000	36510.000000000
NOOITGEDACHT 92 KR	28.182085000	-24.215201000	36511.000000000
NOOITGEDACHT 93 KR	28.343268000	-24.100299000	36512.000000000
NOOITVERWACHT 299 KR	28.826017000	-24.313290000	36513.000000000
NYHOFFS BULT 214 KR	28.618873000	-24.115671000	36515.000000000
OLIEVENFONTEIN 111 KR	28.391684000	-24.146174000	36519.000000000
OLIEVENHOUTFONTEIN 74 KR	28.065512000	-24.165258000	36521.000000000
OLIEVENHOUTHOEK 90 KR	28.143431000	-24.198562000	36522.000000000
OLIFANTSBEEN 82 KR	28.039478000	-24.214822000	36523.000000000
OLIFANTSHOEK 27 KR	28.246611000	-24.085151000	36524.000000000
ONGELUKSKRAAL 48 KR	28.435234000	-24.115172000	36527.000000000
P	28.468129000	-24.070200000	36530.000000000
P	28.475293000	-24.170864000	36531.000000000
P	28.486069000	-24.201285000	36532.000000000
P	28.521222000	-24.299211000	36533.000000000
PAARDEDRIFT 110 KR	28.389955000	-24.196582000	36534.000000000
PAARDEDRIFT 303 KR	28.719235000	-24.314303000	36535.000000000
PALALA 35 KR	28.326909000	-24.019627000	36539.000000000
PALMIETFONTEIN 32 KR	28.316769000	-24.074439000	36540.000000000
PURE KRANS 271 KR	28.548164000	-24.294135000	36554.000000000
R	28.683682000	-24.088410000	36558.000000000
R	28.684487000	-24.087310000	36559.000000000
R	28.685424000	-24.086062000	36560.000000000
R	28.742189000	-24.150465000	36561.000000000
R	28.743621000	-24.150242000	36562.000000000
R	28.745245000	-24.149869000	36563.000000000
R	28.467968000	-24.072574000	36564.000000000
R	28.468609000	-24.074323000	36637.000000000
R	28.477653000	-24.171841000	36638.000000000
R	28.479679000	-24.171774000	36639.000000000
R	28.487222000	-24.203458000	36640.000000000
R	28.488915000	-24.204162000	36641.000000000
R	28.482508000	-24.202492000	36642.000000000
R	28.483858000	-24.201133000	36643.000000000
R	28.455408000	-24.238152000	36644.000000000
R	28.456431000	-24.236643000	36645.000000000
R	28.522697000	-24.296900000	36646.000000000
R	28.523894000	-24.295828000	36647.000000000
RATELHOEK 158 KR	28.336982000	-24.293281000	36651.000000000
RHENOSTERKOP 267 KR	28.498415000	-24.223781000	36653.000000000
RHYNOSTERFONTEIN 96 KR	28.218123000	-24.215273000	36656.000000000
RIETBOKHOEK 4 KR	28.033724000	-24.052704000	36658.000000000
RIETBOKSPRUIT 302 KR	28.732076000	-24.354281000	36659.000000000
RIETBOKVALLEI 125 KR	28.428170000	-24.223356000	36660.000000000
RIETFONTEIN 240 KR	28.925918000	-24.071541000	36664.000000000
RIETFONTEIN 249 KR	28.811527000	-24.210062000	36665.000000000
RIETFONTEIN 318 KR	28.770794000	-24.380752000	36666.000000000
RIETGAT 8 KR	28.098285000	-24.032108000	36671.000000000
RONDEBOSCHJE 295 KR	28.933077000	-24.328344000	36679.000000000
ROODEPOORT 222 KR	28.757887000	-24.049177000	36685.000000000
ROODEPOORT 222 KR	28.749779000	-24.086554000	36686.000000000
ROODEPOORT 314 KR	28.616219000	-24.392043000	36687.000000000
ROOIWAL 281 KR	28.824897000	-24.239891000	36692.000000000
RYKDOM 278 KR	28.697683000	-24.277442000	36774.000000000
S	28.682684000	-24.089199000	36776.000000000
S	28.740877000	-24.150635000	36777.000000000
SALOMONS TEMPEL 230 KR	28.786182000	-24.107519000	36779.000000000
SANDSLOOT 236 KR	28.891895000	-24.015686000	36780.000000000
SANTA RUBRA 171 KR	28.421246000	-24.313190000	36781.000000000
SCHAAPHOK 279 KR	28.744617000	-24.263234000	36783.000000000
SCHAAPVLAKTE 42 KR	28.477180000	-24.023382000	36784.000000000
SCHIKFONTEIN 115 KR	28.439128000	-24.157840000	36786.000000000
SCHOONGEZICHT 107 KR	28.350869000	-24.212630000	36787.000000000
SCHURFPOORT 112 KR	28.437737000	-24.136921000	36789.000000000
SILESIA 292 KR	28.848526000	-24.317224000	36792.000000000
SLAGTKRAAL 159 KR	28.353237000	-24.338329000	36794.000000000
SLANGKUIL 72 KR	28.112320000	-24.135268000	36795.000000000
SLIJPSTEENDRIFT 91 KR	28.155678000	-24.262983000	36796.000000000
ST LEGER 205 KR	28.554622000	-24.038964000	36803.000000000
STEENBOKFONTEIN 9 KR	28.088521000	-24.069669000	36804.000000000
STERKFONTEIN	28.670869000	-24.294212000	36806.000000000
STERKFONTEIN 134 KR	28.199514000	-24.335881000	36808.000000000
STERKFONTEIN 305 KR	28.668205000	-24.353206000	36809.000000000

STERKFORTEIN 306 KR	28.641628000	-24.335282000	36810.000000000
STERKFORTEIN 310 KR	28.668882000	-24.312110000	36811.000000000
STERKRIVIERNEDERSETTING 253 KR	28.683054000	-24.145484000	36812.000000000
STERKSTROOM 103 KR	28.314199000	-24.228166000	36813.000000000
STERKSTROOM 105 KR	28.311969000	-24.176644000	36814.000000000
STERKSTROOM 301 KR	28.780229000	-24.310679000	36815.000000000
STERKWATER 229 KR	28.824436000	-24.069400000	36817.000000000
SUIKERBOSCHPLAAT 153 KR	28.268433000	-24.372634000	36819.000000000
A	28.468138000	-24.070605000	36835.000000000
A	28.467983000	-24.071400000	36836.000000000
A	28.467825000	-24.072195000	36837.000000000
A	28.475652000	-24.171100000	36838.000000000
A	28.476378000	-24.171562000	36839.000000000
A	28.477212000	-24.171814000	36840.000000000
A	28.486216000	-24.201667000	36841.000000000
A	28.486541000	-24.202420000	36842.000000000
A	28.486960000	-24.203132000	36843.000000000
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A	28.521339000	-24.299071000	36845.000000000
A	28.521751000	-24.298357000	36846.000000000
A	28.522186000	-24.297651000	36847.000000000
ANTJESLOOP 266 KR	28.526137000	-24.197740000	36854.000000000
BACCHUS 215 KR	28.605674000	-24.085951000	36863.000000000
BAMBOESKLOOF 169 KR	28.493208000	-24.321628000	36866.000000000
BAVERKUIL 78 KR	28.035334000	-24.130669000	36869.000000000
BAVIAANSKLOOF 290 KR	28.929629000	-24.266006000	36871.000000000
BELLEVUE 101 KR	28.276615000	-24.206930000	36881.000000000
BELLEVUE 98 KR	28.249121000	-24.202197000	36882.000000000
BELLEVUE 98 KR	28.289928000	-24.218080000	36883.000000000
BELLEVUE 98 KR	28.293726000	-24.205713000	36884.000000000
BELLEVUE 99 KR	28.259324000	-24.229981000	36885.000000000
T	28.683046000	-24.088970000	36890.000000000
T	28.741315000	-24.150586000	36891.000000000
TOLR00000000076200000	28.773804000	-23.804335000	36894.000000000
TAFELKOP 46 KR	28.438075000	-24.099749000	36897.000000000
TREHOWEL 133 KR	28.305847000	-24.280876000	36906.000000000
TROUW ZYN NEK 21 KR	28.203923000	-24.090048000	36907.000000000
TURFSPRUIT 241 KR	28.951927000	-24.101755000	36914.000000000
TWEEBOSCH 161 KR	28.358128000	-24.369177000	36917.000000000
TWEEFORTEIN 238 KR	28.952670000	-24.041888000	36919.000000000
UITSPAN 160 KR	28.364076000	-24.302322000	36925.000000000
UITSPAN 160 KR	28.364076000	-24.302322000	36926.000000000
UITZOEK 63 KR	28.237841000	-24.109293000	36931.000000000
V	28.684842000	-24.086660000	36933.000000000
V	28.744389000	-24.150072000	36934.000000000
V	28.468283000	-24.073238000	36935.000000000
V	28.478446000	-24.171820000	36936.000000000
V	28.487777000	-24.203957000	36937.000000000
V	28.483113000	-24.202031000	36938.000000000
V	28.455603000	-24.237450000	36939.000000000
V	28.523252000	-24.296381000	36940.000000000
BLAAUWBANK 2 KR	28.046176000	-24.014618000	36949.000000000
BLAAUWBANK 3 KR	28.072534000	-24.022140000	36950.000000000
BLINKWATER 244 KR	28.890925000	-24.132151000	36953.000000000
BLOKLAND 22 KR	28.212984000	-24.065029000	36956.000000000
BOEKENHOUT 706 KR	28.089680000	-24.210952000	36957.000000000
BOIKOTSONG 81 KR	28.399625000	-24.036674000	36963.000000000
BOKPOORT 312 KR	28.573520000	-24.351809000	36964.000000000
BOSCHDRAAI 60 KR	28.260652000	-24.179542000	36967.000000000
BOSCHPOORT 123 KR	28.448980000	-24.277567000	36970.000000000
BOSHOK 131 KR	28.262523000	-24.332220000	36974.000000000
BOSSIEFORTEIN 274 KR	28.584250000	-24.268415000	36976.000000000
BRAKFORTEIN 16 KR	28.154875000	-24.053750000	36979.000000000
BUFFELSFORTEIN 313 KR	28.567832000	-24.413747000	36982.000000000
BUFFELSFORTEIN 56 KR	28.309413000	-24.093378000	36985.000000000
BUFFELSFORTEIN 65 KR	28.196673000	-24.120146000	36986.000000000
BUFFELSFORTEIN 87 KR	28.310151000	-24.104362000	36987.000000000
BUFFELSHOK 277 KR	28.623056000	-24.291685000	36988.000000000
BUFFELSHOK 41 KR	28.414295000	-24.014568000	36990.000000000
BUFFELSHOK 54 KR	28.302913000	-24.115493000	36991.000000000
BUFFELSHOK 54 KR	28.311051000	-24.131709000	36992.000000000
BUFFELSHOK 70 KR	28.308870000	-24.120096000	36993.000000000
BUFFELSKOP 29 KR	28.272773000	-24.036876000	36995.000000000
BUFFELSPRUIT 86 KR	28.062643000	-24.186245000	36999.000000000
VAALWATER 137 KR	28.112349000	-24.300432000	37003.000000000
VENTERSFORTEIN 75 KR	28.070069000	-24.138778000	37007.000000000
VIER-EN-TWINTIG-RIVIER 102 KR	28.284485000	-24.253791000	37011.000000000
VISCHGAT 64 KR	28.126433000	-24.039359000	37012.000000000
VLAKFORTEIN 270 KR	28.536518000	-24.268515000	37016.000000000

VLUCHTKRAAL 76 KR	28.370211000	-24.075618000	37024.000000000
VOGELSTRUISFONTEIN 69 KR	28.152102000	-24.138229000	37026.000000000
VOGELVLEI 210 KR	28.514827000	-24.104237000	37028.000000000
VOORWAARTS 209 KR	28.588898000	-24.059663000	37032.000000000
VOSDAL 258 KR	28.650979000	-24.182974000	37033.000000000
VRISCHGEWAAGD 173 KR	28.480676000	-24.353525000	37034.000000000
VRYMANSRUST 154 KR	28.313695000	-24.363082000	37035.000000000
VYGEBOOMFONTEIN 1 KR	28.018195000	-24.005048000	37037.000000000
WA	28.803811000	-24.249879000	37039.000000000
WAG N BIETJIE 47 KR	28.066225000	-24.106506000	37040.000000000
WATERHOUTKLOOF 66 KR	28.184875000	-24.149678000	37042.000000000
WATERVAL 250 KR	28.787385000	-24.173335000	37044.000000000
WATERVAL 297 KR	28.904474000	-24.305739000	37045.000000000
WATERVAL 709 KR	28.122371000	-24.193042000	37046.000000000
WELGELEGEN 246 KR	28.844562000	-24.154468000	37051.000000000
WELGEVONDEN 170 KR	28.444624000	-24.331708000	37052.000000000
WELGEVONDEN 232 KR	28.817388000	-24.136431000	37053.000000000
WELTEVREDEN 135 KR	28.181318000	-24.340154000	37056.000000000
BULTFONTEIN 77 KR	28.086582000	-24.111365000	37058.000000000
BULTONGFONTEIN 239 KR	28.989499000	-24.007371000	37059.000000000
CHARLES HOPE 260 KR	28.619161000	-24.205108000	37064.000000000
CLEREMONT 128 KR	28.333365000	-24.260201000	37067.000000000
COMMANDODRIFT 228 KR	28.825957000	-24.007710000	37069.000000000
CYFERFONTEIN 298 KR	28.873744000	-24.336395000	37073.000000000
CYFERKUIL 321 KR	28.891455000	-24.361364000	37077.000000000
D	28.680746000	-24.091976000	37079.000000000
D	28.739912000	-24.150663000	37080.000000000
D	28.467963000	-24.069328000	37081.000000000
D	28.474602000	-24.170331000	37082.000000000
D	28.485466000	-24.200595000	37083.000000000
D	28.480750000	-24.204411000	37084.000000000
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WITKLIP 17 KR	28.142645000	-24.085979000	37128.000000000
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251-LR	28.290079000	-23.523955000	463959.000000000
EERSTEGOUD 1184 LS	29.330623000	-23.985590000	633309.000000000



environment & tourism

Department:
Environmental Affairs and Tourism
REPUBLIC OF SOUTH AFRICA

Private Bag X447, Pretoria, 0001 • Fedsure Building, 315 Pretorius Street, Pretoria, 0002. Tel: (+27 12) 310 3911 Fax: (+27 12) 322 2662

Ref: 12/12/20/1140

Enquiries: Mr. W. Hector

Tel: 012 310 3001 Fax: 012 320 7539 E-mail: WHector@deal.gov.za

Savannah Environmental (Pty) Ltd
Attention: Ms Jo-Anne Thomas
P. O. Box 148
SUNNING HILL
2157

Fax: 086 684 0547

Dear Madam

RE: ACKNOWLEDGEMENT OF RECEIPT OF THE APPLICATION FORM FOR THE PROPOSED CONSTRUCTION OF 400 KV TRANSMISSION LINE IN THE LIMPOPO PROVINCE.

The Department confirms having received the application form for the above mentioned project on the 05 March 2008.

The Department awaits the submission of the Final Scoping Report as prescribed by the EIA Regulations, GN. R 385 of April 2006.

Please note that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

Ms Nosipho Jezile
Acting Director – General
Department of Environmental Affairs and Tourism
Letter signed by: Mr Wayne Hector
Designation: PEO: Environmental Impact Evaluation: Parastatals and National Projects
Date: 07/03/08

Cc: **Ms M Seabe**

Eskom Holdings Limited

Fax: (011) 800 3917

Page 1 of 1

Muhesho wa zwa Vhupo na Vhuendelamashango • U-Tiko le Tasimondzawo netekuVakesha • Isebe lemiGimbi yokusiNgqungileyo noKhenketho Ndzawulo ya Tinhaka & Mbango • Department: Omgewingsake en Toerisme • Lefapha la Tikoloho le Bohanhlaudi • Lefapha la Bojanala Kgoro ya Tikologo le Boeti • UmNyango wezeDhuduluko nokuVakathu • Umnyango Wezemvelo Nokuvakaha

25 June 2008

Your Reference: 12/12/20/1140

Mr Percy Ngidi
Principal Environmental Officer
Department of Environmental Affairs and Tourism
Private Bag X447
Pretoria
0001

Dear Percy,

**ENVIRONMENTAL IMPACT ASSESSMENT FOR THREE PROPOSED
TRANSMISSION POWER LINES IN THE LIMPOPO PROVINCE**

REVISION OF APPLICATION FOR AUTHORISATION

The Application for Authorisation submitted to DEAT and Limpopo DEDET on 5 March 2008 has reference. This project was provided the following reference number by your Department: 12/12/20/1140.

Due to the expected future increase in power generation capacity in the Lephalale area and the need for additional power in the Mokopane and Polokwane areas, Eskom Transmission propose the construction of **765 kV transmission power lines** and **not 400 kV power lines** for the following:

- » A new line between the Delta Substation (near the Medupi Power Station) and the new Mokopane Substation, a distance of approximately 150 km
- » A new line between the new Mokopane Substation and the existing Witkop Substation, a distance of approximately 60 km
- » A new line between Delta Substation and the existing Witkop Substation, a distance of approximately 200 km

The implications of this change in scope of the project are that a wider servitude would be required for the lines (i.e. 80 m for each of the lines and not 55 m as would be the case for a 400 kV line), and that taller towers would be required (i.e. in the region of 50 m and not 35 m as would be the case for a 400 kV line). The use of 765 kV lines would potentially reduce the need for the acquisition of additional servitudes in future to transmit the additional power generated in the Lephalale area.

Eskom Holdings Limited therefore requests for their Application for Authorisation to be amended accordingly.

Please contact me with any queries in this regard.

Kind regards

Jo-Anne Thomas

cc. Henry Nawa – Eskom

Jo-Anne Thomas

From: Percy Ngidi [Pngidi@deat.gov.za]
Sent: 07 July 2008 10:41 AM
To: joanne@savannahsa.com
Subject: 12/12/20/1187: Makopane Power Lines

Dear Jo-Anne

The abovementioned application and your letter dated 25 June refers.

Thank you for notifying us of the proposed amendment to the initial application. These amendments have been noted by this Department.

If there are any other changes to this application, please inform us accordingly.

Kind Regards
Percy

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The views and opinions expressed in this e-mail message may not necessarily be those of DEAT or DEAT-Management.

25 June 2008

Your Reference: 12/12/20/1140

Mr Percy Ngidi
Principal Environmental Officer
Department of Environmental Affairs and Tourism
Private Bag X447
Pretoria
0001

Dear Percy,

**ENVIRONMENTAL IMPACT ASSESSMENT FOR THREE PROPOSED 400 kV
TRANSMISSION LINES IN THE LIMPOPO PROVINCE**

Savannah Environmental has been appointed by Eskom Holdings Limited to undertake the EIA process for the above project. We would hereby like to request exemption from complying with Regulation 56 (b) (i) and (ii), Chapter 6 of the GN R385 in Government Gazette No 28753 of 21 April 2006 (Regulations published in terms of Chapter 5 of the National Environmental Management Act (NEMA), Act No 107 of 1998).

This regulation requires that (i) written notice is to be given to owners and occupiers of land adjacent to the site where the activity is or is to be undertaken and (ii) the owners and occupiers of land within 100 metres of the boundary of the site or alternative site who are or may be directly affected by the activity.

In terms of notification of landowners and occupiers on the proposed power line routes, the following activities will be undertaken in order to provide them the opportunity to become involved in the proposed project and the EIA being conducted:

- » Advertisements will be placed in local and regional newspapers in the area announcing the commencement of the EIA process and inviting interested and affected parties to become involved in the project (end-May 2008).
- » Notice boards will be placed in the area of concern during the announcement of the project in June 2008.
- » Written notices and Background Information Documents (BIDs) will be distributed and placed at public places, send to the relevant municipal officials and councillors, several community organisations as well as the Tribal Authority councillors of the area as part of the public participation process for the project.

- » Focus group and Public meetings will be held in the scoping phase (June 2008), as well as in the EIA phase of the project at appropriate locations within the study area. Public meetings will be advertised in local and regional newspapers and registered parties will be invited to attend these meetings by letter.

Your consideration to provide us with exemption of 56 (b) (i) and (ii) for those along the proposed power line routes will be highly appreciated. Your written notification in this regard will be appreciated.

Please contact me with any queries in this regard.

Kind regards

Jo-Anne Thomas

cc. Henry Nawa – Eskom

17 April 2008

FOR ATTENTION:

Lene Grobbelaar
National DEAT

Copy: Victor Mongwe
Limpopo DEDET

**APPLICATION FOR AUTHORISATION FOR A PROPOSED NEW
TRANSMISSION SUBSTATION AND ASSOCIATED TURN-IN
TRANSMISSION LINES IN THE MOKOPANE AREA, LIMPOPO PROVINCE**

Please find attached the Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2005 for the construction of the following:

- » Construction of a new substation on a site located near Mokopane
- » Integration of the new substation into the transmission system by looping in and out of one of the Matimba-Witkop 400kV transmission lines (i.e. two lines in parallel for a distance of approximately 10 km)
- » Extension of Witkop substation located near Polokwane

The landowners affected by the proposed alternative sites will be identified through the Scoping Process. Therefore, the consent forms required in terms of Regulation 16 of the EIA Regulations will be submitted to your Department during the course of the Scoping process, and will be attached as an Appendix to the Scoping Report.

Please note that this project is linked to the application already submitted to your Department for the construction of transmission lines between the Medupi Power Station and the existing Witkop Substation; the Medupi Power Station and the proposed Mokopane Substation; and the proposed Mokopane Substation and the existing Witkop Substation (EIA Reference number 12/12/20/1140).

Please acknowledge receipt of this application, and advise the Case Officer and EIA Reference Number accordingly.

Please contact me with any queries in this regard.

Kind regards

Jo-Anne Thomas

cc. Mamokete Mafumo – Eskom

Attached: Application Form

File Reference Number:

Application Number:

Date Received:

1. This application form is current as of 1 July 2006. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. It is in the form of a table that can extend itself as each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. Incomplete applications may be returned to the applicant for revision.
5. The use of "not applicable" in the form must be done with circumspection as if it is used in respect of material information that is required by the competent authority for assessing the application, and may result in the rejection of the application as provided for in the regulations.
6. This application must be handed in at the offices of the relevant competent authority as determined by each authority.
7. No faxed or e-mailed applications will be accepted.
8. The application must be completed by an independent environmental practitioner.
9. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

[illegible]

(These numbers will be used to link various different applications, authorisations, permits etc. that may be connected to a specific site)

APPLICATION FORM

1. Background information

Project applicant:	Eskom Holdings Limited		
Trading name (if any):			
Contact person:	Mmamoloko Seabe		
Physical address:	Megawatt Park, Maxwell Drive, Sandton		
Postal address:	PO Box 1091 JOHANNESBURG		
Postal code:	2000	Cell:	-
Telephone:	(011) 800-2345	Fax:	(011) 800-3917
E-mail:	Mmamoloko.seabe@eskom.co.za		

Project consultant:	Savannah Environmental (Pty) Ltd		
Contact person:	Jo-Anne Thomas		
Postal address:	PO Box 148 Sunninghill		
Postal code:	2157	Cell:	082 775 5628
Telephone:	(011) 234-6621	Fax:	086 684 0547
E-mail:	joanne@savannahSA.com		
Professional affiliation(s) (if any)	The South African Council for Natural Scientific Professions		

Landowner:	Substation site – landowners to be identified through Scoping Process; Transmission power lines - Linear development. Landowners to be identified through Scoping Process		
Contact person:			
Postal address:			
Postal code:		Cell:	
Telephone:		Fax:	
E-mail:			

In instances where there is more than one landowner, please attach a list of landowners with their contact details to this application.

Local authority in whose jurisdiction the proposed activity will fall:	Waterberg District Municipality		
Contact person:	Mr P Sebatjane (Municipal Manager)		
Postal address:	Private Bag X1018 MODIMOLLE		
Postal code:	0510	Cell:	-
Telephone:	(014) 717-1344/6	Fax:	(014) 717-2931
E-mail:	psebatjane@waterberg.gov.za		

In instances where there is more than one local authority involved, please attach a list of local authorities with their contact details to this application.

Project title:	Mokopane Integration Project: » Construction of a new substation near Mokopane » Integration of the new substation into the transmission system by looping in and out of one of the Matimba-Witkop 400kV transmission lines (i.e. two lines in parallel for a distance of approximately 10 km) » Extension of Witkop substation		
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Property description:	Substation - to be determined during Scoping Process Transmission power lines - Linear development. To be determined during Scoping Process		
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(Farm name, portion etc.) Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application.

Town(s) or district(s):			
Physical address:	Substation - to be determined during Scoping Process Transmission power lines - Linear development. To be determined during Scoping Process		

In instances where there is more than one town or district involved, please attach a list of towns or districts to this application.

APPLICATION FORM

Current land-use zoning: Various – linear development; to be determined through the Scoping process.

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

Is a change of land-use or a consent use application required?

YES

Must a building plan be submitted to the local authority?

YES

Locality map:

A locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be at least 1:50 000. The scale must be indicated on the map. The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow.

Owners consent:

In line with the requirements of the EIA regulations, letters of consent of all landowners or a detailed explanation by the applicant explaining why consent is not possible must be attached to the back of this document as Appendix B.

Letters of consent for alternative substation sites to be obtained during the Scoping Process and to be submitted with the Scoping Report

2. Activities applied for

An application may be made for more than one listed or specified activity that, together, make up one development proposal. All the listed activities that make up this application must be listed.

Indicate the number and date of the relevant notice:	Activity No (s) (in terms of the relevant or notice) :	Describe each listed activity:
Government Notice R387 (21 April 2006)	1(l)	The construction of facilities or infrastructure, including associated structures or infrastructure, for the transmission and distribution of above ground electricity with a capacity of 120 kilovolts or more
Government Notice R386 (21 April 2006)	12	The transformation or removal of indigenous vegetation of 3 hectares or more or of any size where the transformation or removal would occur within a critically endangered or an endangered ecosystem listed in terms of section 52 of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).
Government Notice R386 (21 April 2006)	14	The construction of masts of any material of type and of any height, including those used for telecommunications broadcasting and radio transmission, but excluding (a) masts of 15m and lower exclusively used by (i) radio amateurs; or (ii) for lightening purposes (b) flagpoles; and (c) lightening conductor poles
Government Notice R386 (21 April 2006)	15	The construction of a road that is wider than 4 metres or that has a reserve wider than 6 metres, excluding roads that fall within the ambit of another listed activity or which are access roads of less than 30 metres long.
Government Notice R386 (21 April 2006)	16(a)	The transformation of undeveloped, vacant or derelict land to residential, mixed, retail, commercial, industrial or institutional use where such development does not constitute infill and where the total area to be transformed is bigger than 1 hectare.
Government Notice R386 (21 April 2006)	7	The above ground storage of a dangerous good, including petrol, diesel, liquid petroleum gas or paraffin, in containers with a combined capacity of more than 30 cubic metres but less than 1 000 cubic metres at any one location or site.
Government Notice R386 (21 April 2006)	1 (m)	The construction of facilities or infrastructure, including associated structures or infrastructure, for any purpose in the one in ten year flood line of a river or stream, or within 32 metres from the bank of a river or stream where the flood line is unknown, excluding purposes associated with existing residential use, but including - (i) canals; (ii) channels; (iii) bridges;

APPLICATION FORM

		(iv) dams; and (v) weirs
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Please note that any authorisation that may result out of this application will only cover activities applied for. Omissions may render any authorisation that is based on incomplete information to be nil and void.

3. Type of application

3.1 Application for Basic Assessment

Is this an application for conducting a basic assessment (as defined in the regulations)?

	NO
YES	NO

If, YES, is a basic assessment report attached?

If, NO, please indicate when the basic assessment report will be submitted:

--

3.2 Application for Scoping and Environmental Impact Assessment (EIA)

Is this an application for Scoping and EIA (as defined in the regulations)?

YES	
	NO

If, YES, is a Scoping Report and Plan of Study for EIA attached?

If, NO, please indicate when the Scoping Report and Plan of Study for EIA will be submitted:

June 2008

The scoping report and/or the plan of study for EIA will be submitted after consultation with the competent authority:

YES	
-----	--

A consultation with the competent authority is hereby requested:

YES	
-----	--

APPLICATION FORM

4. Declarations

4.1 The independent Environmental Assessment Practitioner

I, Jo-Anne Thomas, declare under oath that I –

- act as the independent environmental practitioner in this application ;
- do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2005;
- have and will not have no vested interest in the proposed activity proceeding;
- have no, and will not engage in, conflicting interests in the undertaking of the activity;
- undertake to disclose, to the competent authority, any material information that have or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document required in terms of the Environmental Impact Assessment Regulations, 2005;
- will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- will keep a register of all interested and affected parties that participated in a public participation process; and
- will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not.

Jo-Anne Thomas
Signature of the environmental practitioner:

Savannah Environmental
Name of company:

17/04/08
Date:

[Signature]
Signature of the Commissioner of Oaths:

Date:

Designation:

Official stamp (below)

Jo-Anne Thomas

HANDTEKENING VAN VERKLAARDER/SIGNATURE OF DECLARANT
Ek sertifiseer dat die verklaarder erken dat hy/zy vertrouwd is met die inhoud van die verklaring en dit oegryp. Hierdie verklaring is bevestigingswag voor my en verklaarder se handtekening/duimafdruk/merk is in my teenwoordigheid daarop aangebring.
I certify that the declarant has acknowledged that he/she knows and understands the contents of this declaration which was sworn to affirmed before me and the declarant's signature/thumb print/mark was placed thereon in my presence.

VREDEREGTER/JUSTICE OF THE PEACE
KOMMISSARIS VAN EED/KOMMISSIONER OF OATHS
Volle voornamte en van THOMAS
Full first names and surname (Druk/Block letters)
RODILE MOROPANA
Amp (rang) Inspector
Designation (rank) Ex Officio Republiek van Suid-Afrika
Besigheidsoesadres
Business address
BESKERMINGSDIENSTE
MEGAWATT PARK MAXWELLRYLAAN SANDTON
PROTECTIVE SERVICES
MAXWELL DRIVE SANDTON
Datum 17/04/08 Pisk MWP
Date Pisco

APPLICATION FORM

4.2 The Applicant

I, MMAMOLOKO SEABE, declare under oath that I -

- Am, or represent, the applicant in this application;
- appointed the environmental assessment practitioner as indicated under point 4.1 above to act as the independent environmental assessment practitioner for this application;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2005, including but not limited to -
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these regulations;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify, the government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action for which the applicant or environmental assessment practitioner is responsible in terms of these regulations; and
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to an appeal being decided in terms of these regulations.



Signature of the applicant:

ESKOM HOLDING LTD

Name of company:

17/04/08

Date:

Signature of the Commissioner of Oaths:

Date:

Designation:

Official stamp (below):

 NANDTEKENING VAN VERKLAARDE / SIGNATURE OF DECLARANT Ekertifiseer dat die verklaarder erken dat hy/sy verhoed is met die inhoud van die verklaring en die begrip. Hierdie verklaring is blydrukkend, verskaf my en verklaarder se handtekening/duimafdruk moet in my teenwoordigheid daarop aangebring. I certify that the declarant has acknowledged that he/she knows and understands the contents of this statement and that he/she agrees to affix his/her signature and/or thumbprint in my presence.	
VREDEREGTER / JUSTICE OF THE PEACE KOMMISSARIS VAN EDE / COMMISSIONER OF OATHS Volle voornam en van <u>THOMAS</u> Full first names and surname (Drukletters/Block letters) <u>PODILE MOROPANA</u> Amp (rang) <u>P. Inspektor</u> Designation (rank) <u>Public Officer</u> Plaats (stad) <u>Midrand</u> Place (city) <u>Midrand</u> Besigheidswaarskyn <u>BESKERMINGSDIENSTE</u> Business address <u>MEGAWATT PARK MAXWELLYLAAN SANDTON</u> <u>PROTECTIVE SERVICES</u> <u>MAXWELL DRIVE SANDTON</u> Datum <u>17-04-08</u> Date <u>17-04-08</u> Plaats <u>MWP</u> Place <u>MWP</u>	

Grobblers Bridge
BOTSWANA

LEGEND

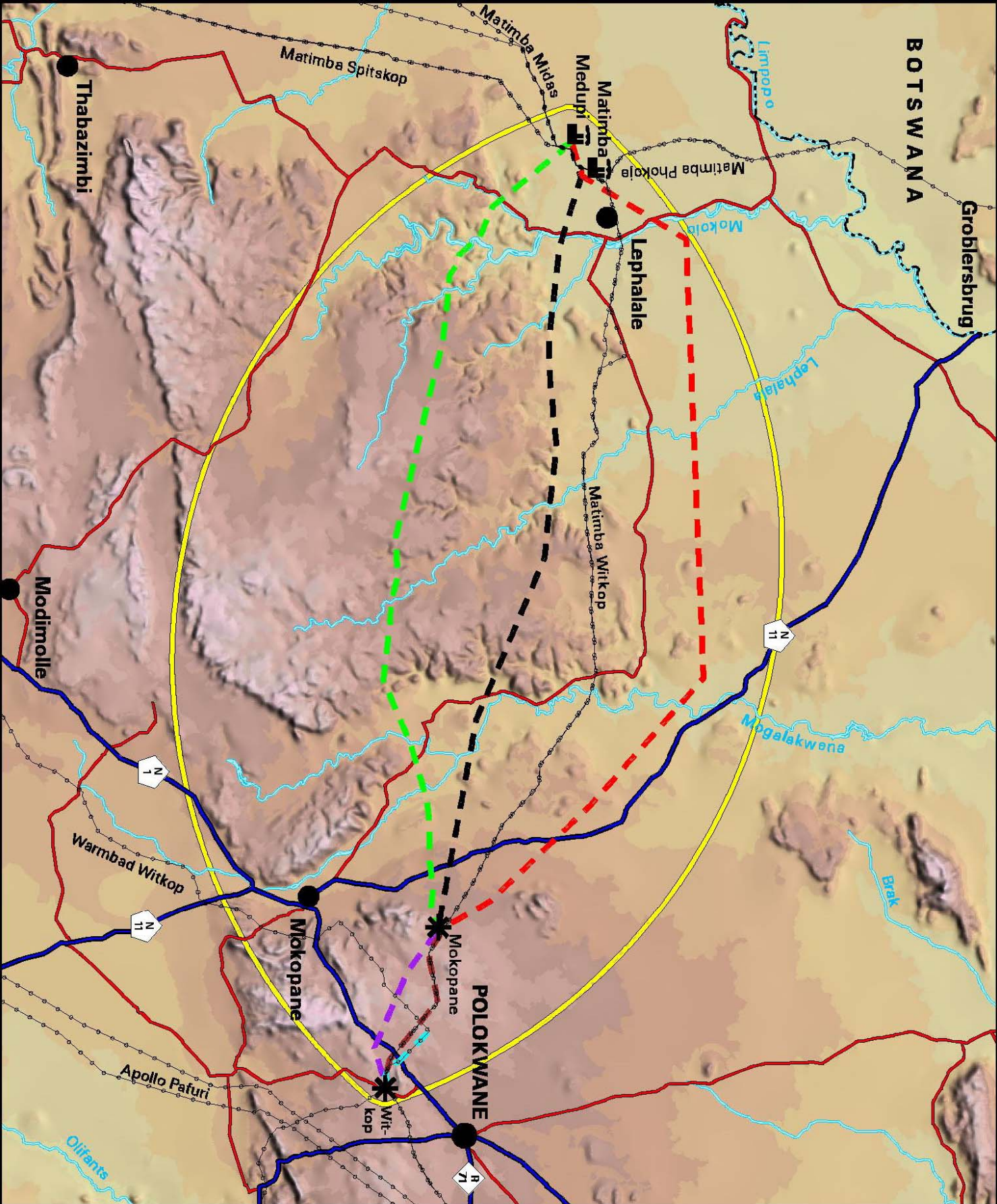
-
- National Road**
- Secondary Road**
- Existing Powerline Infrastructure**

Substation Site Alternatives

- Option 1
Option 2
Option 3

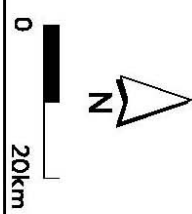
ORIENTATION





Mokopane Integration Project

- National/Arterial Road
- Main Road
- Major Town
- Transmission Line
- Major River
- International Border
- Power Station
- Substation
- Transmission Line Alternatives
- Corridor 1 Medupi Mokopane 1
- Corridor 2 Medupi Mokopane 2
- Corridor 3 Medupi Mokopane 3
- Corridor 4 Mokopane Witkop 1
- Corridor 5 Mokopane Witkop 2
- Corridor 6 Mokopane Witkop 3
- Study Area





environment & tourism

Department:
Environmental Affairs and Tourism
REPUBLIC OF SOUTH AFRICA

Private Bag X447, Pretoria, 0001 • Fedsure Building, 315 Pretorius Street, Pretoria, 0002. Tel: (+27 12) 310 3911 Fax: (+27 12) 322 2682

Ref: 12/12/20/1187

Enquiries: Mr. P. Ngidi

Tel: 012 310 3182 Fax: 012 320 7539 Email: pngidi@deat.gov.za

Mmamoloko Seabe
Eskom Holding Ltd
P. O. Box 1091
JOHANNESBURG
2000

Tel No: (011) 800-2345
Fax No: (011) 800-3917

Dear Madam

ACKNOWLEDGEMENT OF RECEIPT OF THE APPLICATION FORM FOR THE PROPOSED CONSTRUCTION OF THE MAKOPANE INTERGRATION PROJECT IN LIMPOPO

The Department confirms having received the application form for environmental authorisation of the abovementioned project on dated 17 April 2008. You may proceed with the scoping process required in terms of the Environmental Impact Assessment Regulations, 2006.

The application has been assigned the reference number **12/12/20/1187**. Kindly quote this reference number in any future correspondence in respect of the application.

The Applicant must ensure that all requirements of Chapter II, Section 38 of the National Heritage Resources Act, Act 25 of 1999, are complied with in this EIA process, and that the comments and /or recommendations of the relevant heritage resources authority responsible for the area in which the development is proposed, is considered.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours Sincerely

Ms Nosipho Jezile
Acting Director – General
Department of Environmental Affairs and Tourism
Letter signed by: Mr. P. Ngidi

Designation: Principal Environmental Officer: Environmental Impact Evaluation: National and Parastatals

Date: 22/04/2008

Cc: Jo-Anne Thomas

Savannah Environmental

Fax: 086 684-0547

25 June 2008

Your Reference: 12/12/20/1187

Mr Percy Ngidi
Principal Environmental Officer
Department of Environmental Affairs and Tourism
Private Bag X447
Pretoria
0001

Dear Percy,

**ENVIRONMENTAL IMPACT ASSESSMENT FOR A PROPOSED NEW
TRANSMISSION SUBSTATION AND ASSOCIATED TURN-IN
TRANSMISSION LINES IN THE MOKOPANE AREA, LIMPOPO PROVINCE**

Savannah Environmental has been appointed by Eskom Holdings Limited to undertake the EIA process for the above project. We would hereby like to request exemption from complying with Regulation 56 (b) (i) and (ii), Chapter 6 of the GN R385 in Government Gazette No 28753 of 21 April 2006 (Regulations published in terms of Chapter 5 of the National Environmental Management Act (NEMA), Act No 107 of 1998).

This regulation requires that (i) written notice is to be given to owners and occupiers of land adjacent to the site where the activity is or is to be undertaken and (ii) the owners and occupiers of land within 100 metres of the boundary of the site or alternative site who are or may be directly affected by the activity.

Exemption for the above is requested only for the proposed power lines which are proposed to turn in and out of the proposed new substation (see map attached), as the owners and occupiers of the land affected by the proposed substation will be personally notified.

In terms of notification of landowners and occupiers on the proposed power line routes, the following activities will be undertaken in order to provide them the opportunity to become involved in the proposed project and the EIA being conducted:

- » Advertisements will be placed in local and regional newspapers in the area announcing the commencement of the EIA process and inviting interested and affected parties to become involved in the project (end-May 2008).
- » Notice boards will be placed in the area of concern during the announcement of the project in June 2008.

- » Written notices and Background Information Documents (BIDs) will be distributed and placed at public places, send to the relevant municipal officials and councillors, several community organisations as well as the Tribal Authority councillors of the area as part of the public participation process for the project.
- » Focus group and Public meetings will be held in the scoping phase (June 2008), as well as in the EIA phase of the project at appropriate locations within the study area. Public meetings will be advertised in local and regional newspapers and registered parties will be invited to attend these meetings by letter.

Your consideration to provide us with exemption of 56 (b) (i) and (ii) for those along the proposed power line routes will be highly appreciated. Your written notification in this regard will be appreciated.

Please contact me with any queries in this regard.

Kind regards

Jo-Anne Thomas

cc. Henry Nawa – Eskom

Attached: Application Form

12 November 2008

Your Reference: 12/12/20/1140

12/12/20/1187

Department of Environmental Affairs and Tourism
Private Bag X447
Pretoria
0001

Attention: Mr Percy Ngidi
CC: Lene Grobbelaar (DEAT)
Mr Selamolela Oscar (Limpopo DEDET)

Dear Percy,

**ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED MOKOPANE
INTEGRATION PROJECT, LIMPOPO PROVINCE**

Savannah Environmental has been appointed by Eskom Holdings Limited to undertake the EIA process for the proposed Mokopane Integration Project. This project includes the construction of the following components:

- » A **new transmission substation** on a site near Mokopane.
- » **Two 400 kV transmission power lines** in parallel looping in and out of one of the existing Matimba-Witkop 400kV transmission lines (i.e. two lines in parallel for a distance of up to 10 km) in order to integrate the new substation into the transmission system.
- » **Two new 765 kV transmission power lines in parallel** between the Delta Substation (a new substation to be located near the Medupi Power Station) and the existing Witkop Substation (near Polokwane), as follows:
 - * A new 765kV transmission power line between the Delta Substation and the new Mokopane Substation (a distance of approximately 150 km); and
 - * a new 765kV transmission power line between the new Mokopane Substation and the Witkop Substation (a distance of approximately 60 km).
 - * A new 765kV transmission power line between Delta Substation and the Witkop Substation (a distance of approximately 200 km).

- » **Associated works** to integrate the new transmission power lines and substation into the Transmission grid (such as access roads, communication tower, etc) and accommodate the new lines at existing substations (such as the construction of new feeder bays within the existing Witkop substation site).

Two separate applications were submitted to DEAT for this proposed project, and therefore two EIA Reference Numbers were issued, i.e. **12/12/20/1140** (transmission lines) and **12/12/20/1187** (substation and turn-in lines).

However, Regulation 15(1) of GN R385 of 21 April 2006 states:

If an applicant intends undertaking two or more activities as part of the same development, a single application on one application form must be submitted in respect of all those activities

Through consultation with your Department, it has been determined that a single application should therefore have been submitted for this proposed project, and a single EIA Reference number issued. We would hereby like to request that the applications be consolidated under a single EIA Reference Number which would be used in all correspondence relating to the project from this point forward.

In order to ensure transparency of the EIA and public participation process, all registered I&APs will be notified of this consolidation of the applications (together with the appropriate EIA Reference number), and an advertisement will be placed in local and regional newspapers. In addition, a revised Scoping Report, which considers all aspects of the project within a single report, will be made available for public review and comment.

Please contact me with any queries in this regard.

Kind regards

Jo-Anne Thomas
EIA Project Manager: Mokopane Integration Project



environment & tourism

Department:
Environmental Affairs and Tourism
REPUBLIC OF SOUTH AFRICA

Private Bag X447, Pretoria, 0001 • Federe Building, 315 Pretorius Street, Pretoria, 0002. Tel: (+27 12) 310 3911 Fax: (+27 12) 322 2682

Ref: 12/12/20/1187

Enquiries: Mr. P. Ngidi

Tel: 012 310 3182 Fax: 012 320 7539 Email: pngidi@deat.gov.za

Mmamoloko Seabe
Eskom Holding Ltd
P. O. Box 1091
JOHANNESBURG
2000

Tel No: (011) 800-2345
Fax No: (011) 800-3917

Dear Madam

CONSOLIDATION OF REFERENCE NUMBERS FOR THE PROPOSED MAKOPANE INTERGRATION PROJECT IN THE LIMPOPO PROVINCE

The above-mentioned projects with reference numbers: 12/12/20/1187 and 12/12/20/1140 and the letter dated and received by this Department in November 2008.

Please note that the Department has no objection to the consolidation of the project's reference numbers under one reference number. The proposed project has been assigned the reference number 12/12/20/1187. Kindly quote this reference number in any future correspondence in respect of the proposed project.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours Sincerely

Ms Nosipho Ngcaba

Director – General

Department of Environmental Affairs and Tourism

Letter signed by: Mr. P. Ngidi

Designation: Principal Environmental Officer: Environmental Impact Evaluation: National and Parastatals

Date: 2/12/2008

Cc: Jo-Anne Thomas

Savannah Environmental

Fax: 086 684-0547

Munasho wa zwa Vhupo na Vhuendelamashango • LiTiko le Tsimondzawo netekuVakasha • Isebe lemiCimbi yokusiNgqongileyo noKhenketho
Ndzawulo ya Tinhaka & Mbango • Department: Omgewingsake, en Tsephele • Lefapha la Tikoloho le Bohankhlaudi • Lefapha la Bojanala
Kgoro ya Tikologo le Boeli • UmNyango wezeBhuduluko nokuVakasha • UmNyango Wezemvelo NokuVakasha

Batho Pele - putting people first