



PREPARED FOR:

Eskom, Environmental screening for
distribution activities

Danie

ENVIRONMENTAL SCREENING – ADDITIONAL INFORMATION

22kVa Electricity line, on the Farm
Kalk Dam 70, Northern Cape

1. INTRODUCTION

A 22kVa electricity line is planned for Mr. T. Faber and will stretch from portions of the farms, Kalk Dam 70, Roode Kopjies 69, Die Plaas 252, and Red Hill 68, situated in Northern Cape.

The line will be 1.6km in length. The Eskom's Distribution Environmental Screening Document has been completed for this proposed line. This document contains associated information pertaining the development of the 22kVa line.

Green-Box Consulting was appointed to consolidate all relevant information and present the information to Eskom.

This document also serves to present information to the SAHRA in terms of Section 38 (1) in order to confirm no important cultural heritage along the proposed line. A site inspection of the proposed line route revealed no important cultural heritage resources or graves found on or near the route of the proposed line.

Included in this document the following:

1. Distribution Environmental Screening Document;
2. Span Plan;
3. Site photos;
4. 1:50 000 topo cadastral location map;
5. Elevation map;
6. Environmental sensitivity map;
7. DEFF Screening report; and
8. NC Biodiversity Plan, 2016.

Document Classification: Controlled Disclosure

**ENVIRONMENTAL IMPACT ASSESSMENT FOR
DISTRIBUTION ACTIVITIES**

Unique Identifier: 240-72597722

Revision: 1

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Annex B - Distribution Environmental Screening Document (DESD)
(Informative)

Reticulation Powerlines and Ancillary Services

Rectified and accepted by

Environmental Practitioner

Environmental Specialist

Head of Engineering Survey

(one signature please)

Accepted by Land Owner/s/Users

I have seen the completed document and accept the

recommendations made

Assessor/s

Form completed by

Signature:

In consultation with:

Signature:

CAPACITY (e.g. land owner, specialist):

DATE COMPLETED:

Instructions

1. Fill the report in as neatly and completely as possible.
2. Where the question / statement is not applicable mark N/A.
3. Indicate sensitive areas on a map and/or spanning plans.
4. When in doubt, consult the Environmental Practitioner in your region.

The purpose of this DESD is to:

- Determine whether or not the project should be subject to R543-7, published in terms of the National Environmental management Act 107 of 1998.
- Identify and mitigate the negative impact of Eskom's activities to a minimum in line with both Legislation and Eskom's Environmental Policies.
- This report is a guide to Route Selection, Construction and Field Services.

NOTE Complete the report before the survey!!!

This is not an office exercise.

Extra sheets of paper may be added and referenced if insufficient space has been provided.

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DISTRIBUTION ACTIVITIES**Unique Identifier: **240-72597722**Revision: **1**Page: **19 of 70****Annex B**
(continued)**1 Project description**

Project name/Survey **22kVa power line Kalkdam 70** Area **Portions of Kalk Dam 70, Roode Koppies 69, Die Plaas 252 & Red Hill 68, Northern Cape**

Request File number

Project number File number

Rural scheme/ File number

Feeder **Eskom conductor line, 23.7439, -28.9204** Voltage **22kVa**

Supply from **Eskom conductor line**

(scheme name, pole numbers for tee-off)

Supply to **Red Hill 68**

(Farm name, etc.)

2 Properties traversed

Farm name **Kalk Dam 70** Sub-division

Registration number and Division Sub-division

Compilation number Line length (m) **403m**

Farm name **Roode Koppies 69, Die Plaas 252, Red Hill 68** Sub-division

Registration number and Division Sub-division

Compilation number Line length/Site area (m²) **279m, 116m, 705m**

3 Brief description of the surrounding area

The area proposed for the distribution line of approximately 1.5km is located within the Schmidtia Thornveld Vegetation type. The area topography can be defined with undulating plains with ridges and hills. The distribution line proposed will however be located on fairly flat area.

There are no surface water courses applicable along the proposed distribution line. A non-perennial drainage line is located east of the distribution alignment. No residential areas is located within the project area. Vegetation cover include the presence of invader trees. Some Wilgat trees can be find in the area, however none along the line alignment.

Could the proposed project have an impact on or be constrained by any of the following environmental aspects?

Encircle the appropriate aspect, giving a description of the present state as well as an indication of the possible negative impact. Note that mitigating measures for these impacts are to be included in the Environmental Management Programme.

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Annex B
(continued)

4 Physical environment

4.1 Water: streams rivers dams wetlands springs floodplains OTHER None

Present condition: No streams nor any significant drainage lines are present along the proposed distribution line alignment.
A small non-perennial drainage line is located on the east of the line at the end point.

Potential impact (e.g. threat of pollution): No impacts are foreseen.

4.2 Soil: sandy rocky clayey OTHER

Present condition: The distribution line falls within the Lithosols soil class (shallow soils on hard or weathering rock).

Potential impact (e.g. of erosion) No impact is foreseen on soil conditions.

4.3 Topography mountains ridges hills valleys ravines dongas OTHER Plain

Present condition: The area is represented by undulating plains, within the plains are associated dolerite sills forming - ridges and slopes of koppies. Rock and boulder covered slopes mainly constitute stony Mispah and gravel-rich soil types (Mucina & - Rutherford, 2018)

Potential impact (e.g. of erosion) The alignment is however fairly flat and no impacts is foreseen - (see attached elevation maps)

Comments/mitigating measures:

Selective bush clearance must be implemented to avoid possibility of soil erosion.

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(continued)**5 Natural environment**5.1 Flora: ☒ indigenous ☒ protected ☐ exotic ☐ OTHER

Brief description and conservation status (e.g. rare, etc., mention trees/bush/grass) Vegetation type - Schmidt's drift Thornveld

The Schmidt's drift Thornveld is characterised by closed shrubby thornveld. The site is dominated by trees, Black Thorn, Haak-en-Steek, Wilgat - trees can also be observed. NO Biodiversity plan identify the line as being in both a Critical Biodiversity and Ecological Support Areas (see biodiversity map attached).

Potential impact (e.g. permit applications)

The vegetation type is considered least Threatened. No protected trees are located within the alignment, however should any Wilgat trees need to be removed, permit application through DAFF will be required.

5.2 Fauna: ☒ mammals ☐ birds ☐ OTHER

Brief description and conservation status:

(e.g. rare, protected, etc., mention giraffe, elephants, eagles, vultures, etc., mention migratory paths)

Small mammals can be expected in the area, including terrestrial rodents, and shrews. Larger mammals will also be present.

Potential impact (e.g. threat of electrocution, collision, etc.)

No significant impacts foreseen, as the distribution line is of small magnitude, construction will be of short duration.

Comments/mitigating

measures:

No specific mitigation measures is required. It is however recommended that bush clearance be kept to a minimum.

6 Social environment6.1 Restricted areas: nature/game reserves ☐ hiking trails ☐ tourism routes ☐ parks ☐ recreational areasResidential areas: green belts ☐ sacred/holy grounds ☐ OTHER: None

Brief description: No residential areas are located within the vicinity of the project. The distribution line is proposed on farm land.

Annex B
(continued)

Potential impact e.g. threat of encroachment, etc. **None**

6.2 Visual aesthetics: easily seen **hidden** partially

Brief description: The distribution line will be located within an area covered by trees serving as natural screen. There are further no residential areas in close proximity to the line. The R385 road is more than a kilometer east from the line.

Potential impact: No visual impacts is foreseen.

6.3 Natural heritage:

| | | | |
|--------------------------|---------------------------|-----------|-----------------------------|
| cultural significance | archaeological objects | monuments | palaeontological objects |
| graves | meteorites | ruins | OTHER: NA |

Note: Should any natural heritage resource as listed above, or as defined in the National Heritage Resource Act, No 25 of 1999 be identified, the requirements of Act 25 of 1999 shall be followed by notifying the SAHRA. If line or access road length exceeds 300m SAHRA shall be notified.

Potential impact: Environmental Screening report submitted on SAHRIS for comment.

Comments/mitigating measures

Should any of the above be identified during construction the project must stop and environmental officer must be notified.

7 Economic environment

7.1 Land use:

| | | | |
|--------------|----------------|---------|------------------------------------|
| crops | orchards | grazing | crop spraying |
| game farming | forestry areas | mining | OTHER: Natural (greenfield) |

Brief description: The area do not present any specific land use, and is described as undisturbed natural.

Annex B
(continued)

Potential impact: No significant impacts are foreseen, the line is relatively short (1.6km).

7.1.1 Commercial: factories shops OTHER None

Brief description: No commercial landuses are applicable.

Potential impact: No impact.

7.1.2 Infrastructure: roads railways communications power lines air fields
pipelines sewage OTHER

Brief description: Along the proposed line route there are no infrastructure, except for informal farm access tracks.
At the start point an existing farm stream is located.

Potential impact: No impacts.

Comments/mitigating measures:
None

Annex B
(continued)

What impact will this project have on elements 4 to 7?

1. Physical

☒ No impact (0)☐ Medium impact (2)☐ High impact (4)

2. Natural

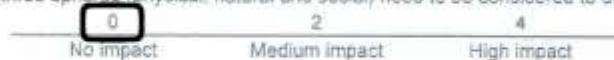
☒ No impact (0)☐ Medium impact (2)☐ High impact (4)

3. Social

☒ No impact (0)☐ Medium impact (2)☐ High impact (4)

Overall impact:

This section addresses the overall environmental impact of the project. The impacts as assessed in the above three spheres (physical, natural and social) need to be considered to determine the overall impact.



If the overall impact is between 2 and 4, contact the Environmental Management Officer or the Environmental Senior Superintendent.

Alternatives

Have alternative routes been discussed with the relevant land owner/s or users?

Yes

No

☒**Detailed study**Is an *environmental assessment* required in terms of Regulation R543?

Yes

No

☒

Should a permit application be made to DWA?

Yes

No

☒

Should the SAHRA be notified?

Yes

No

☒

Note that a environmental screening assessment was submitted on SAHRIS, 21 August 2020.

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Annex C - Environmental Management Plan (Normative)

1 General conditions

- 1.1** The Eskom project manager or co-ordinator shall be responsible for ensuring that the land owners have been informed before any work is carried out on site. Contractors shall find out if the landowners have been informed before moving onto site.
- 1.2** No fences, gates or locks shall be damaged to obtain access onto a line route. Arrangements shall be made in advance to obtain permission for access.
- 1.3** Use of private roads shall be arranged in advance. Any damage to private roads shall be repaired at the contractor's expense and to the satisfaction of the landowner. This shall be the responsibility of the project manager or co-ordinator.
- 1.4** Gates shall be left as they are found, i.e. closed gates shall be kept closed and open gates shall be left open. Gates to adjacent properties or onto public roads shall be closed at all times. Any Eskom gates installed on the line route shall be kept closed and locked except while stringing is taking place. Open gates shall be guarded to prevent animals straying and unauthorised persons and vehicles entering into adjacent camps or properties.
- 1.5** Permission shall be obtained from landowners before any water is used.
- 1.6** No fires shall be lit on private property. If fires are lit on Eskom's property or in the construction camp, provision shall be made that no accidental fires are started. No firewood shall be collected in the veld.
- 1.7** If activities that can cause a fire are carried out, fire extinguishers shall be available on site and in the construction camp.
- 1.8** No property may be accessed after normal working hours except with the permission of the landowner. Privacy shall be respected at all times.
- 1.9** Eskom, Eskom's contractors and their employees shall at all times be courteous towards landowners, tenants and the local community.
- 1.10** Eskom, Eskom's contractors and their employees shall not cause damage to property, crops or animals. Activities that may cause conflict with landowners, tenants, the local work force or the local community shall be avoided. Should conflict arise it shall be immediately reported to the Eskom project manager or co-ordinator.
- 1.11** Vehicles shall be driven at a moderate speed on private roads and stay within the statutory speed limit on public roads.
- 1.12** All movement of vehicles shall take place on the established Eskom servitude road or on private roads as agreed in advance. Keep to existing tracks. No movement shall take place through the veld. Special care shall be taken to prevent excess damage during wet weather.

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- 1.13 If any vehicle should get stuck, the damage shall be repaired immediately so that no deep ruts remain.
- 1.14 Any damage to private property shall immediately be reported to Eskom and the owner. The damage shall be rectified immediately if possible and/or appropriate compensation shall be paid to the owner at the discretion of the project manager/co-ordinator in consultation with the property owner. A record of damages and rectifying action shall be kept. The landowner's satisfaction with the outcome of rectifying action shall be obtained in writing.
- 1.15 A proper system of waste management shall be instituted in the construction camp. This entails that sufficient waste bins are available on site and in the construction camp. The waste shall be dumped at an approved waste disposal site. No containers, scrap metal, conductor etc. shall be left on site.
- All scrap shall be removed and taken to an appropriate disposal site. No oil, diesel or other chemicals shall be spilled or discarded anywhere. If an accidental spill occurs, it shall be reported immediately and cleaned to the satisfaction of Eskom and the landowner. No waste shall be left in the veld or on the line route.
- 1.16 Washing and toilet facilities shall be provided on site and in the construction camp. The facilities shall comply with Eskom standards and shall have the approval of the landowner.
- 1.17 No human excrement shall be left in the veld. If no toilet facilities are available such waste shall be buried immediately.
- 1.18 Herbicides shall only be applied with Eskom's permission and in accordance with the Eskom Policy on Herbicides ESKPBAAD4.
- 1.19 Camp and office sites shall be dismantled and removed after completion of the construction phase of the project. The site shall be rehabilitated to as close as possible to its original condition to the satisfaction of the landowner, which shall be in writing.
- 1.20 All excavations shall be enclosed to prevent animals or people from accidentally falling into excavations.
- 1.21 No trees shall be cut or removed without prior permission from the landowner. Permits shall be obtained for the cutting and removal protected trees (protected trees shall be dealt with in 2. Special conditions).
- 1.22 Should any natural heritage object be found, or exposed during excavations, all work shall be terminated immediately and the finding reported to the Project Manager who shall inform the Eskom Environmental Practitioner and the SAHRA.

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2 Special conditions

(Specific issues identified during the scoping as needing attention i.e. erosion berms, bird flappers, protected trees, etc.).

Should any protected tree species be affected, prior permit application must be submitted to DAFF for approval.

Bush clearance must be kept to a minimum to mitigate against soil erosion.

TYPICAL MITIGATION MEASURES

| ENVIRONMENTAL CONCERNS | MITIGATION MEASURES |
|---|---|
| AGRICULTURE | |
| Loss of standing crop due to access road and tower work site. | <ul style="list-style-type: none"> - limit width of access and size of tower site. - avoidance of crop areas. - monetary compensation for crop loss. - time construction to avoid growing season. |
| Soil Compaction | <ul style="list-style-type: none"> - scheduling activities to times of the year when soils are least susceptible to compaction. - stop activities when ground conditions are poor. - use of equipment with low bearing capacity. - chisel ploughing. |
| Construction of new lines | <ul style="list-style-type: none"> - locate access roads along existing traffic routes. |
| Topsoil – subsoil mixing/soil rutting | <ul style="list-style-type: none"> - scheduling activities. - stop activity when ground conditions are poor. - use of equipment with low bearing capacity. - use of gravel roads. - addition of manures to offset fertility loss. - compensation for reduced soil productivity. - removal of spoil and/or bentonite from foundation operations. - Segregation of topsoil and subsoil. |
| Disturbance to farm operations | <ul style="list-style-type: none"> - maintain contact with landowner/tenant regarding preferences. |
| Loss of livestock | <ul style="list-style-type: none"> - employ noise control measures near sensitive livestock. - Construction of farm gates. - Securing farm gates. - Clean-up construction materials which could be ingested. - Compensation for lost, injured livestock. |
| SOCIAL IMPACTS | |
| Mud and Dust | <ul style="list-style-type: none"> - wetting down dry soils. - chemical control of dust. - cleaning roads to remove mud. - temporary planting of grasses. |

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 15/05/2015 13:13:00 15/05/2015 13:13:00 15/05/2015 13:13:00

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| | |
|--|---|
| Aesthetics | <ul style="list-style-type: none"> - screen with natural or planted vegetation restoration. - avoid linear access down the right-of-way. - addition of topsoil to gravel access roads. - hoarding construction sites. - installation of landscaping in advance of site completion. |
| Inconvenience | <ul style="list-style-type: none"> - select route and method of installation to suit landowners' conditions. - select timing of activity. |
| Heritage resources | <ul style="list-style-type: none"> - avoidance/isolation. - design measures to make facility less obtrusive. - screening. - alternate methods of equipment. - protection by use of enclosures, barrier fencing, covering. - salvage in conjunction with SAHRA. - relocation in conjunction with SAHRA. |
| Tourism and recreation resources | <ul style="list-style-type: none"> - design measures to make facility less obtrusive or disruptive. - screening and restoration. - minimise noise and dust. - safety precautions to protect the public. - scheduling to avoid peak use periods. |
| WATER QUALITY | |
| Sedimentation of streams due to erosion from the right-of way. | <ul style="list-style-type: none"> - minimise use of slopes adjacent to streams during soils testing, construction and maintenance. - maintain a cover crop. - retain buffers. |
| Stream bank erosion. | <ul style="list-style-type: none"> - mechanical erosion control. - retain shrubby stream bank vegetation and selectively cut or prune trees during line clearing/maintenance. - selective spraying of herbicides. - Mechanical erosion control. |
| Impedance of natural flow streams/others surface waters. | <ul style="list-style-type: none"> - use and maintenance of appropriate stream crossing device. |
| Ponding or channelization of surface waters due to rutting. | <ul style="list-style-type: none"> - timing activities to stable ground conditions. - use of gravel roads. |
| Contamination of surface or ground waters through spills or leaks of toxic substances. | <ul style="list-style-type: none"> - spill control material and procedures readily available. - site selection where possible. |
| Soil compaction/topsoil-subsoil mixing. | <ul style="list-style-type: none"> - avoidance of rutting by vehicles where possible. - construction timing. - use of gravel roads. - use of vehicles with low bearing pressures. - stop activities when ground conditions are poor. |
| Wind/water erosion. | <ul style="list-style-type: none"> - avoidance of areas with high erosion potential. - timing activities to the most stable ground conditions. - slope stabilisation. - mechanical erosion control. - vegetation erosion control. - recompaction of trenches. - avoid trenching parallel to the fall of a slope. |

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| | |
|--|---|
| Contamination by petrochemicals. | <ul style="list-style-type: none"> - spill control material and procedures made readily available. - restoration methods investigated. |
| FAUNA & FLORA | |
| Loss of habitat, breeding and/or food source for terrestrial wildlife. | <ul style="list-style-type: none"> - environmental mapping to identify sensitive areas. - avoidance of areas containing rare/endangered species. - construction and maintenance activities to be timed where possible to avoid peak breeding periods. - the creation of "edge" (may be considered a positive impact.) - promotion of wildlife habitat through vegetation control. - avoid the filling of small wetlands. - use design with low risk to wildlife electrocution or collision - fit bird flight divertors to powerlines in bird migration areas. |
| Changes in composition of vegetation as a result of disturbance. | <ul style="list-style-type: none"> - construction timing to minimise soil disturbance. - restoration of soils to a stable condition. |
| Removal or burial of stream bottom habitat and increased turbidity due to sedimentation. | <ul style="list-style-type: none"> - minimise erosion from the right-of-way by maintaining a cover crop. - mechanical erosion control. - minimise stream bank erosion by retaining shrubby bank vegetation and selective cutting, pruning of trees near watercourses. - installation of sediment traps when necessary. |
| Possible loss of wildlife/fish migration/travel routes. | <ul style="list-style-type: none"> - avoid filling small wetlands serving as staging areas for waterfowl migration. - Installation and maintenance of a proper stream crossing device. - time construction activities to avoid disturbance to migrating fish and wildlife or during breeding. - Follow Eskom standards for the application of herbicides near watercourses. - Preserve and/or augment existing natural corridor crossings; investigate tower placement to optimise clearances to preserve existing vegetation. |
| Introduction of exotic plant species resulting from vegetative erosion control. | <ul style="list-style-type: none"> - use of native species for erosion control. |
| Vegetation stress due to nutrient loss as a result of soil deterioration. | <ul style="list-style-type: none"> - erosion control measures. |
| Changes in vegetation due to soil disturbance (topsoil-subsoil mixing). | <ul style="list-style-type: none"> - time construction/clearing to take advantage of stable soil conditions. |

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SPAN PLAN

Span Plan

Kalk Dam 70 22 kVa line

Legend

○ Feature 1



SITE PHOTOS

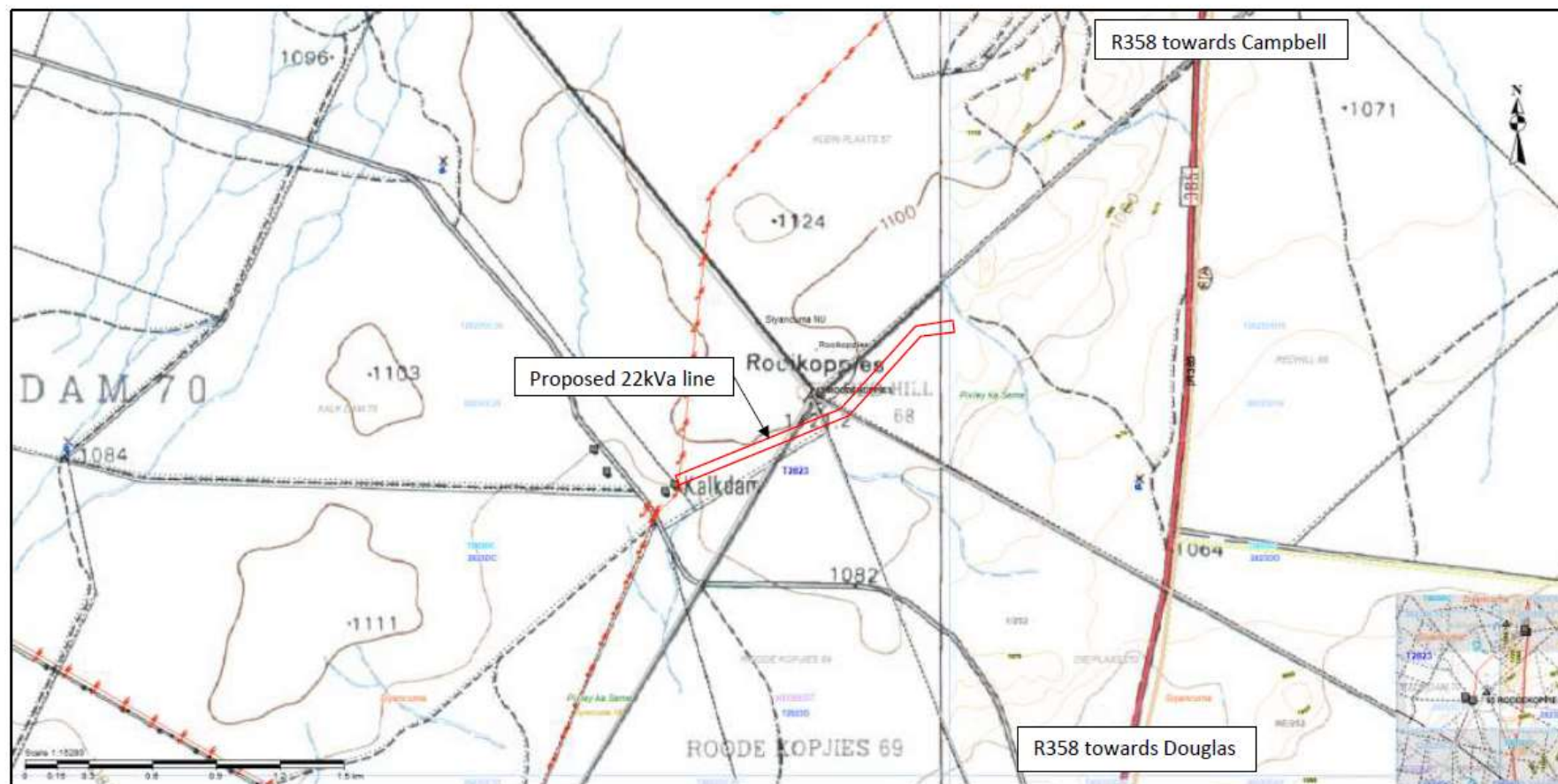


Photo 1: Typical landscape of line route



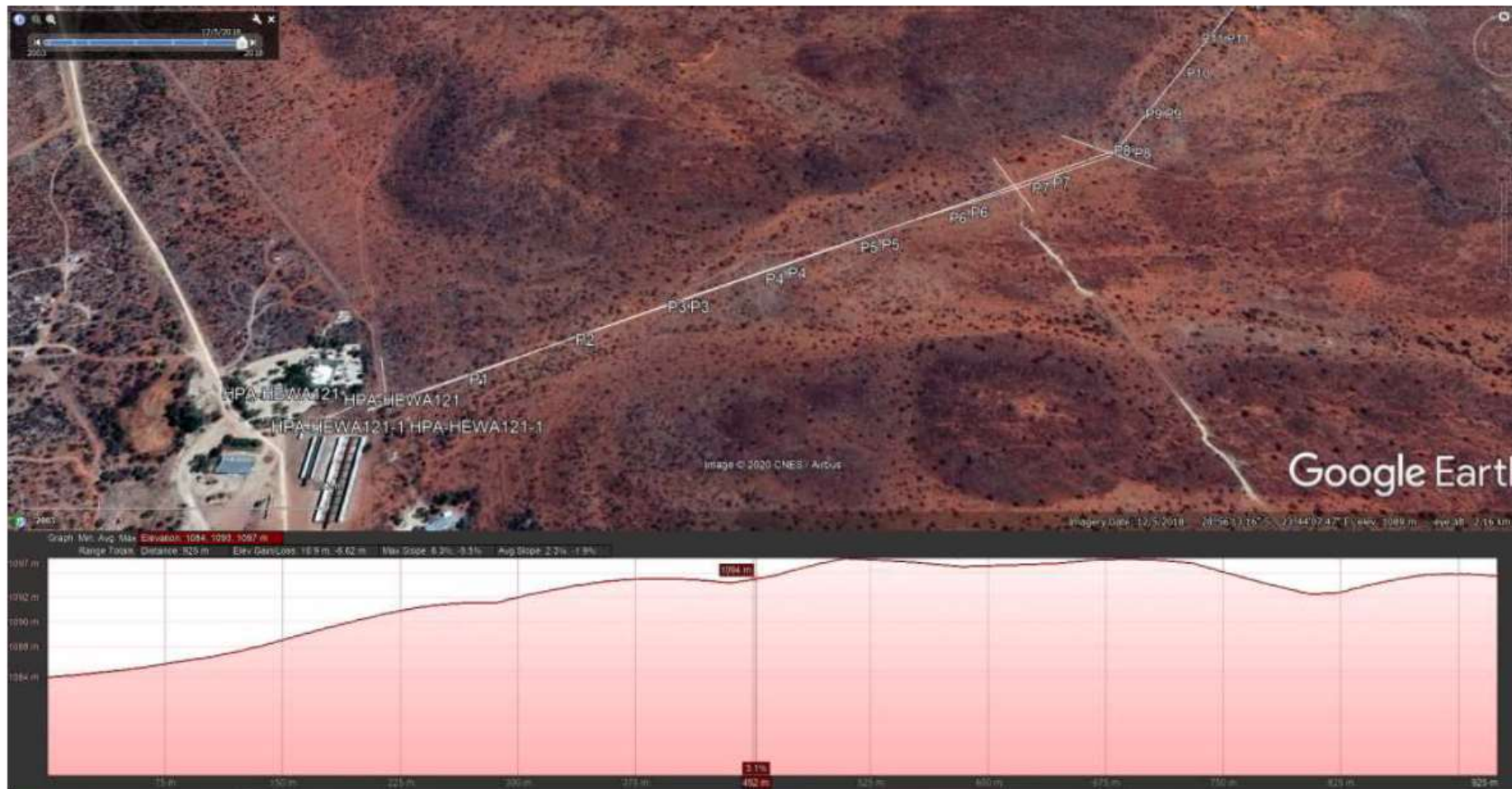
Photo 2: Section of line route

1:50 000 TOPO CADASTRAL LOCATION MAP



1:50 000 Topo-cadastral map: 1.6km, 22kVa powerline, on a portion of the farms Kalk Dam 70, Roode Kopjies 69, Die Plaas 252, and Red Hill 68, Northern Cape

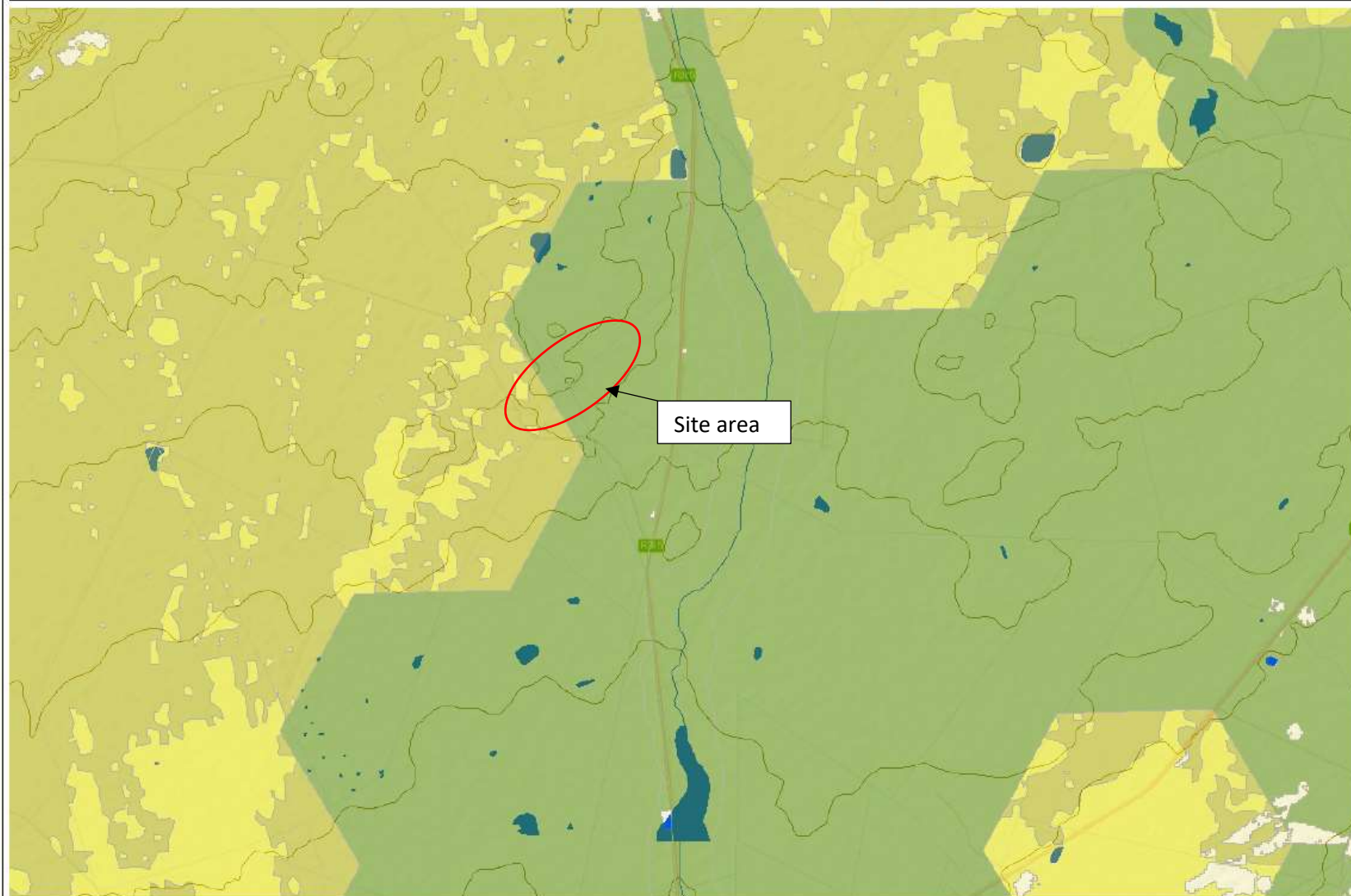
ELEVATION MAP



Elevation of first section: Average slope at 2.3%

ENVIRONMENTAL SENSITIVITY MAP

Screening - 22kVa line, Kalk Dam








Description

Screening assessment






Legend

Northern Cape Critical Biodiversity Areas 20

-  Critical Biodiversity Area One
-  Critical Biodiversity Area Two
-  Ecological Support Area
-  Other Natural Areas
-  Protected Area

-  South Africa town points
-  South African parent farm cadaster
-  20m Contour lines - northern RSA
-  20m contour lines - southern RSA
-  Rivers (NFEPA)

-  1
-  5
-  10

-  Wetland clusters (NFEPA)
-  National wetlands map 4 (NFEPA)
-  Formal protected areas (NBA 2011)
-  Informal protected areas (NPAES)
-  Marine Protected Areas MPAs (NBA 2011)

-  World Street Map
-  Addo Biodiversity Conservation Plan
-  Cape Winelands DMA Biodiversity Assessment
-  Cape Town Biodiversity Network
-  Central Karoo Biodiversity Assessment
-  Eastern Cape Biodiversity Conservation Plan
-  FSP Bergvliet
-  FSP Bergvliet

1: 72 224



3.7 0 1.83 3.7 Kilometers

WGS_1984_Web_Mercator_Auxiliary_Sphere
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DEFF SCREENING REPORT

See attached separate document

NC BIODIVERSITY PLAN, 2016

Screening - 22kVa line, Kalk Dam

Description

Biodiversity map

Legend

Northern Cape Critical Biodiversity Areas 20

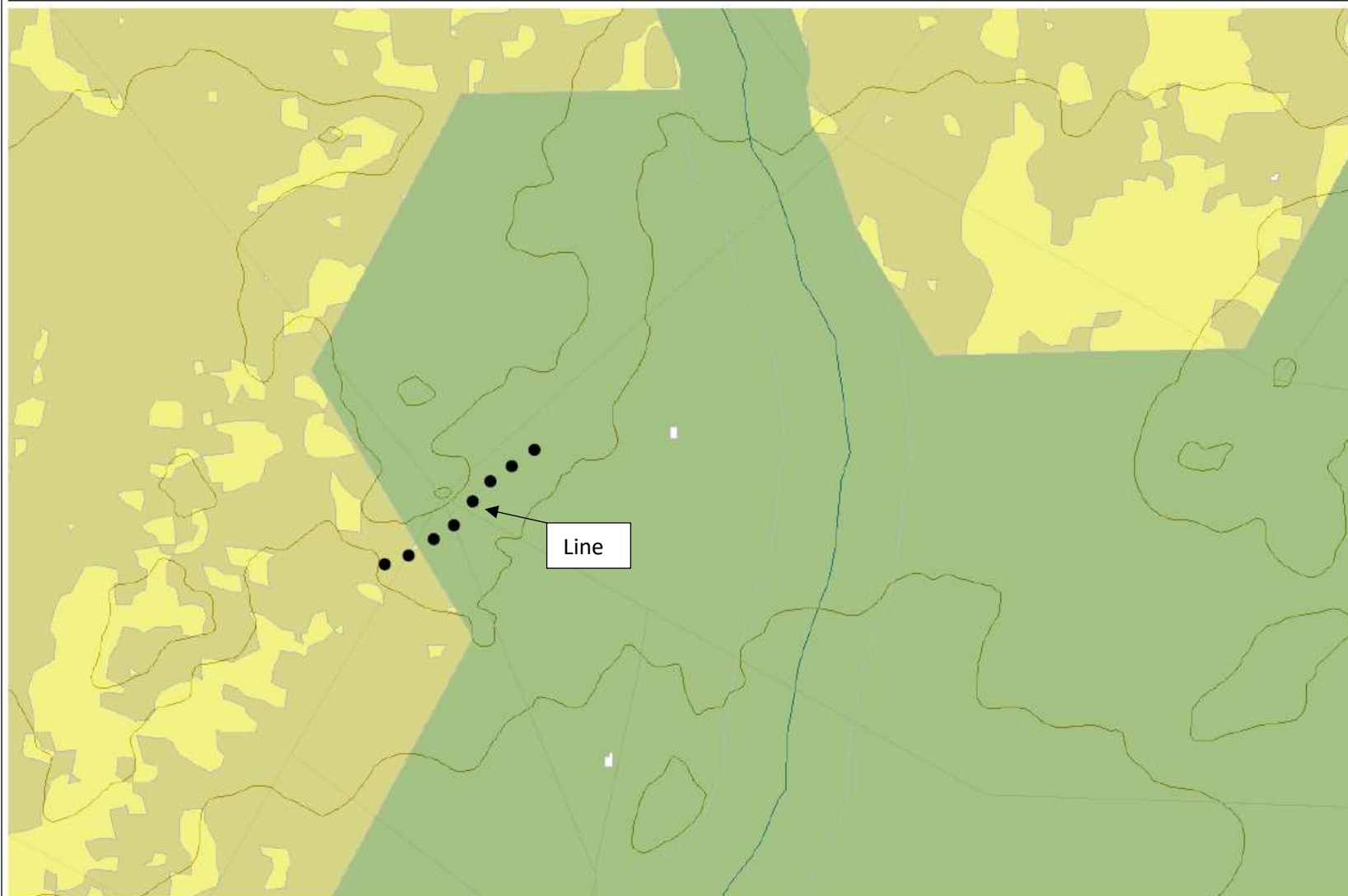
- Critical Biodiversity Area One
- Critical Biodiversity Area Two
- Ecological Support Area
- Other Natural Area
- Protected Area

- South Africa town points
- South African parent farm cadaster
- 20m Contour lines - northern RSA
- 20m contour lines - southern RSA
- Rivers (NFEPA)
- 1
- 5
- 10

World Street Map

- Addo Biodiversity Conservation Plan
- Cape Winelands DMA Biodiversity Assessment
- Cape Town Biodiversity Network
- Central Karoo Biodiversity Assessment
- Eastern Cape Biodiversity Conservation Plan
- FSP Bergivier
- FSP Breede Valley
- FSP Cederberg
- FSP Hessequa
- FSP Langeberg
- FSP Matzikama
- FSP ...

1: 36 112



1.8 0 0.92 1.8 Kilometers

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