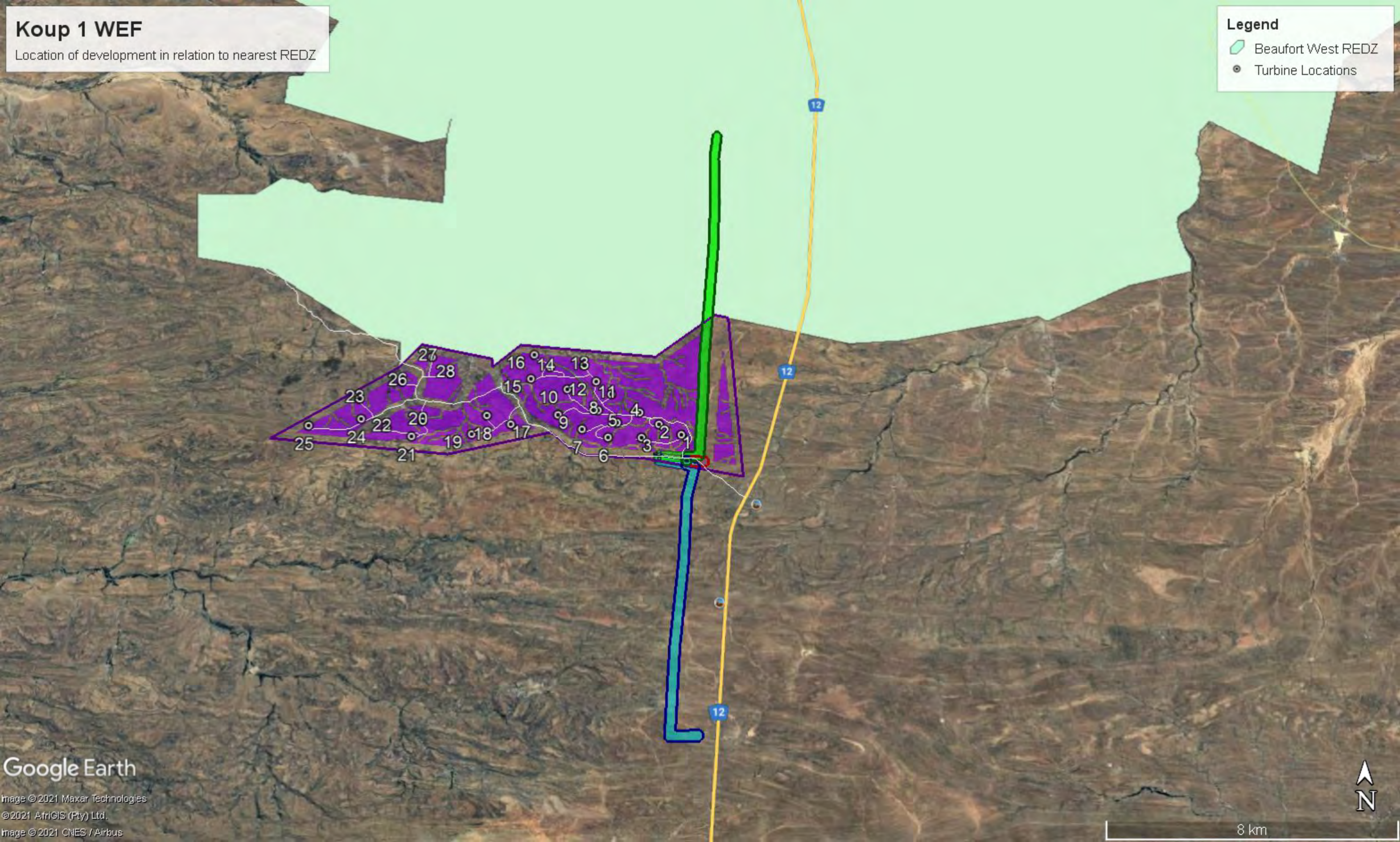


# Koup 1 WEF

Location of development in relation to nearest REDZ

**Legend**

- Beaufort West REDZ
- Turbine Locations



Google Earth

Image © 2021 Maxar Technologies  
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Image © 2021 CNES / Airbus











8 km







**PROPOSED  
CONSTRUCTION OF THE  
KOUPI 1 WIND ENERGY  
FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
SITE LOCALITY**

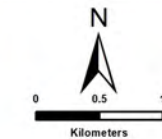
**Legend**

-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Koupi 1 WEF Application Site (S32° 51.579' E22° 28.901')
- Proposed WEF Components**
-  Turbine Positions
-  Substation Site Alternatives
-  Construction Laydown Area Site Alternatives
-  Internal Road Network

**CBA Classification**

-  CBA 1
-  ESA 1
-  ESA 2
-  Other Natural Areas

SOURCE:  
ESKOM, 2012  
NGL, 2014  
WESTERN CAPE BIODIVERSITY SPATIAL PLAN, 2017

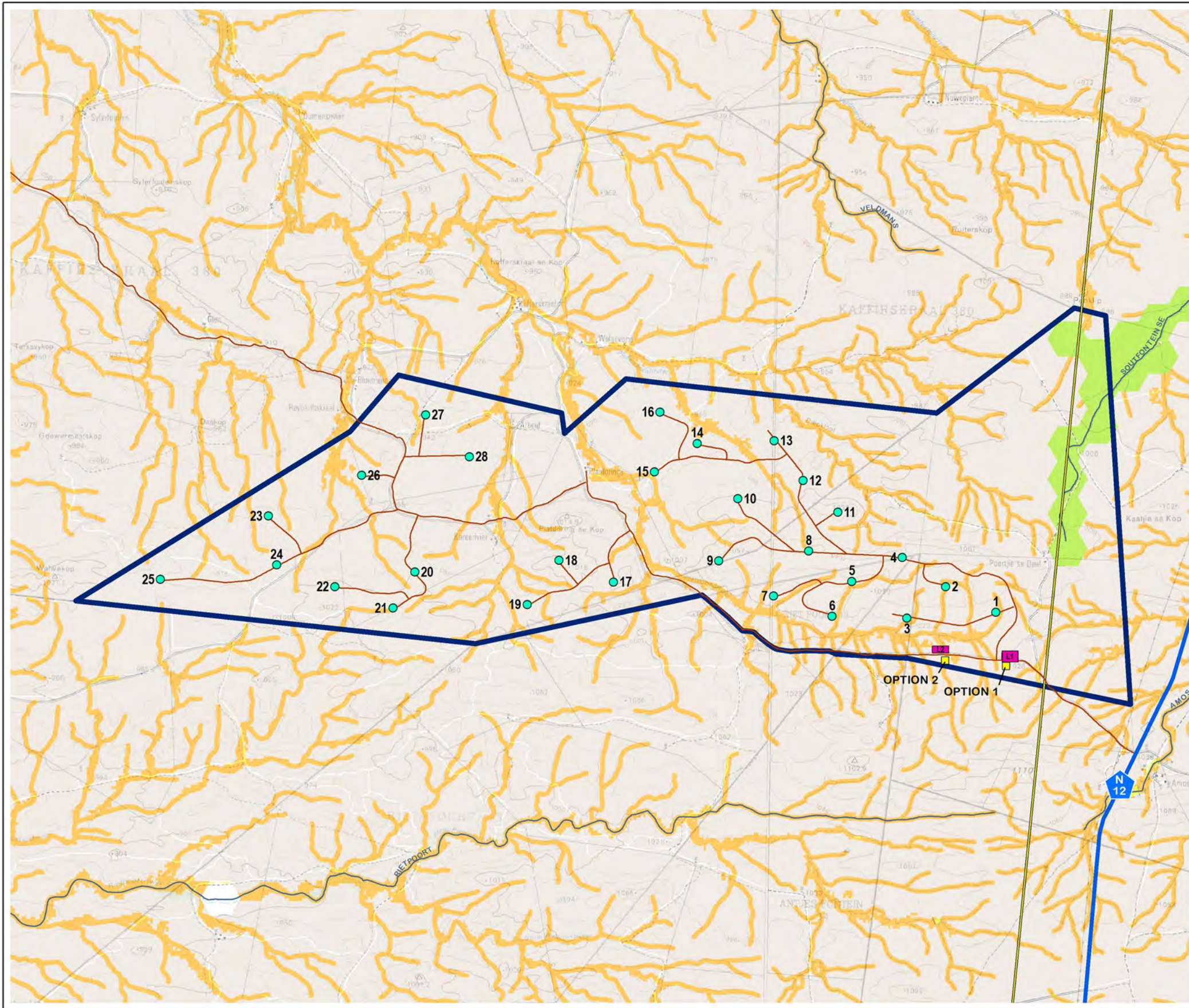


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Map Ref No 16017/K1_APP01	Revision 0	Date

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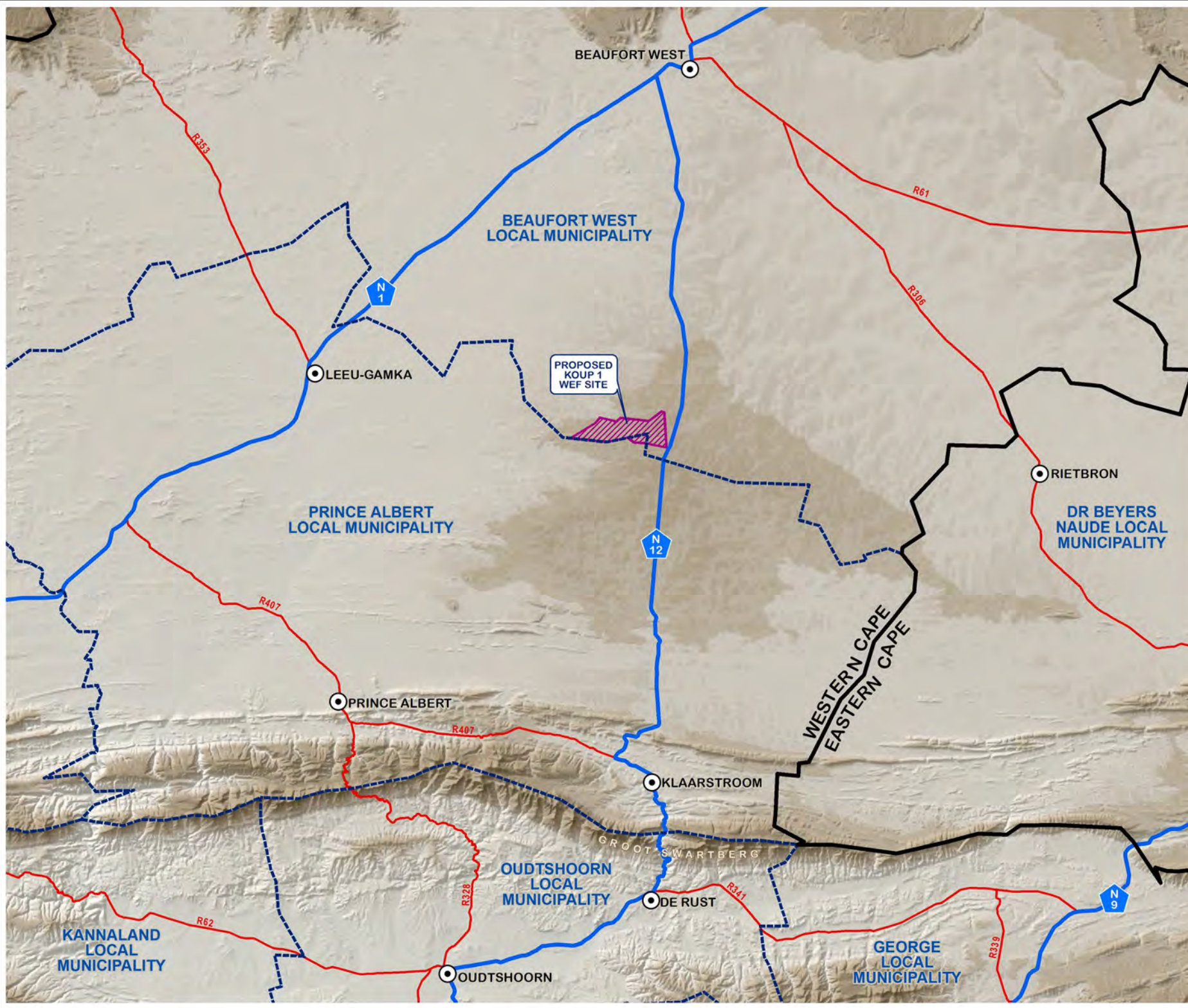




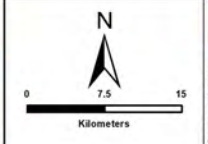
# PROPOSED CONSTRUCTION OF THE KOUPI 1 WIND ENERGY FACILITY NEAR BEAUFORT WEST, WESTERN CAPE PROVINCE REGIONAL CONTEXT

## Legend

-  Main Towns
-  Provincial Boundary
-  Local Municipal Boundaries
-  National Routes
-  Main Arterial Routes
-  Koup 1 WEF Application Site



SOURCE:  
MUNICIPAL DEMARCATION BOARD, 2016  
NGI, 2014



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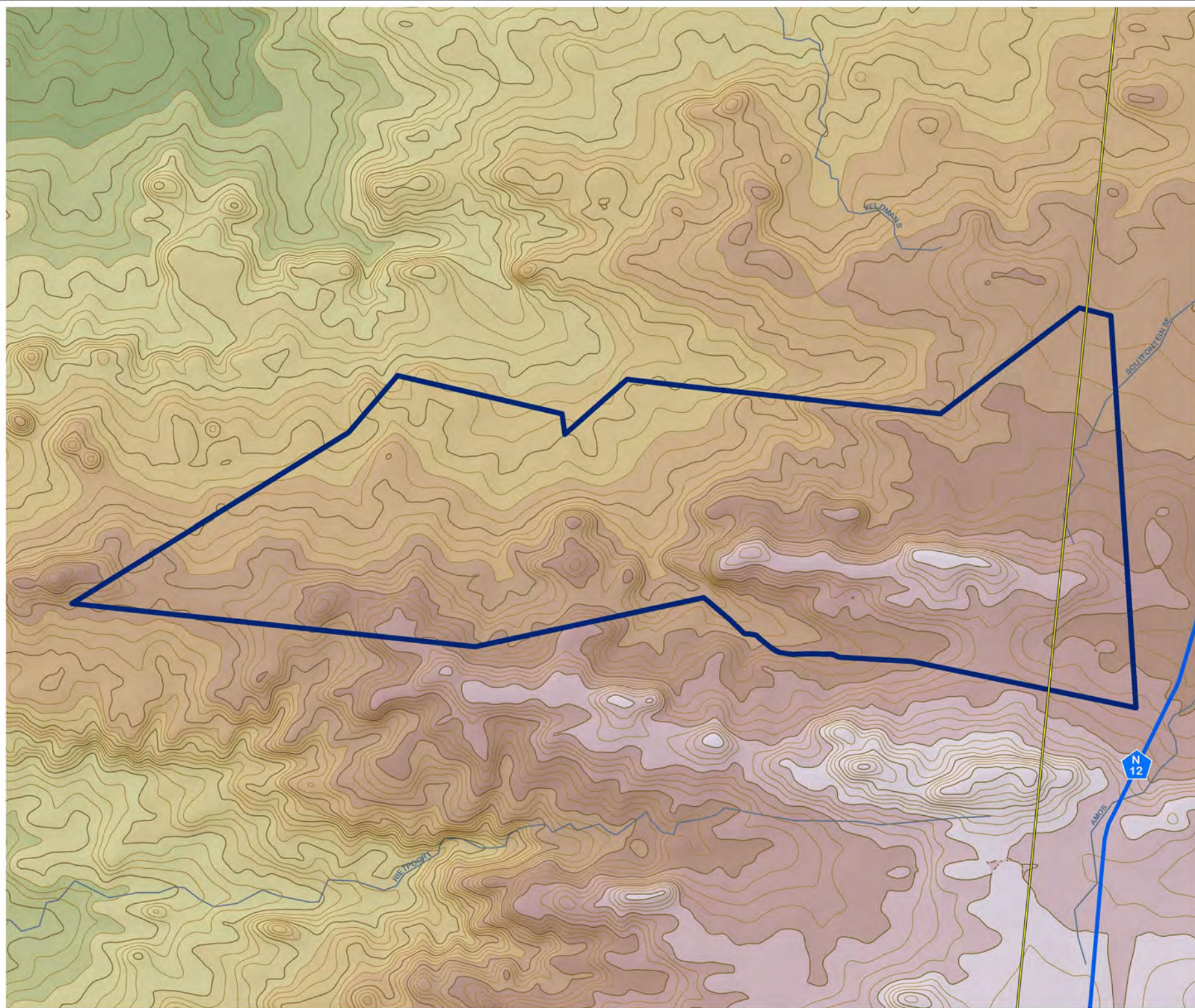
**PROPOSED  
CONSTRUCTION OF THE  
KOUPI 1 WIND ENERGY  
FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
TOPOGRAPHY**

**Legend**

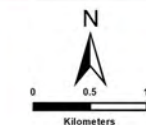
-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Contours (20m Interval)
-  Contours (5m Interval)
-  Koupi 1 WEF Application Site

**Elevation (msl)**

-  High: >1,060m
-  Low: <= 800m



SOURCE:  
ESKOM, 2012  
NFEPA, 2011  
NGI, 2014



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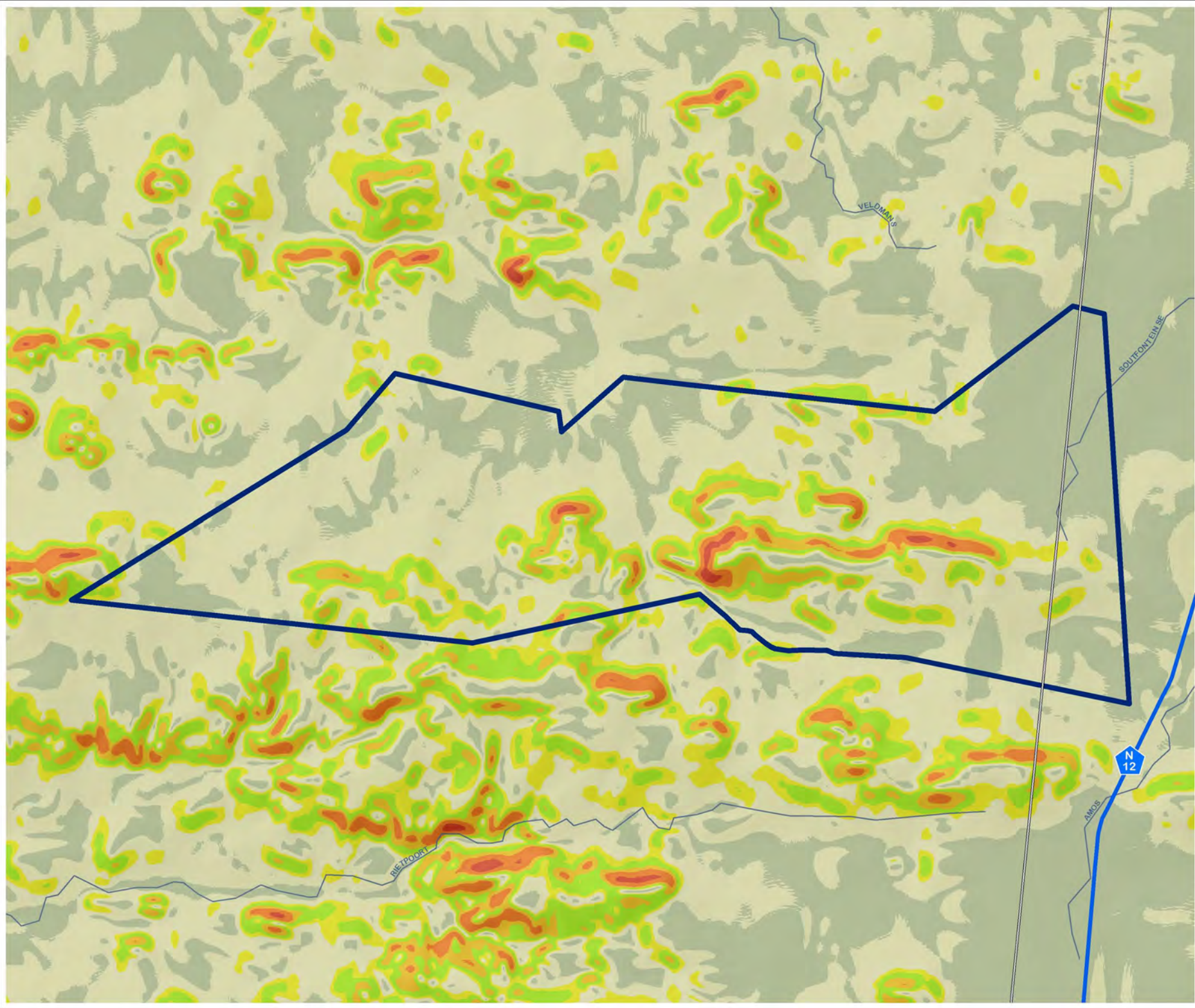
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






**PROPOSED  
CONSTRUCTION OF THE  
KOUPI 1 WIND ENERGY  
FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
SLOPE CLASSIFICATION**



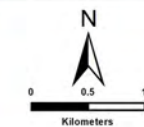
**Legend**

-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Koupi 1 WEF Application Site

**Slope Classification**

-  Flatter than 1:50
-  1:50 - 1:20
-  1:20 - 1:15
-  1:15 - 1:10
-  1:10 - 1:7.5
-  1:7.5 - 1:5
-  Steeper than 1:5

SOURCE:  
ESKOM, 2012  
NFEPA, 2011  
NGI, 2014



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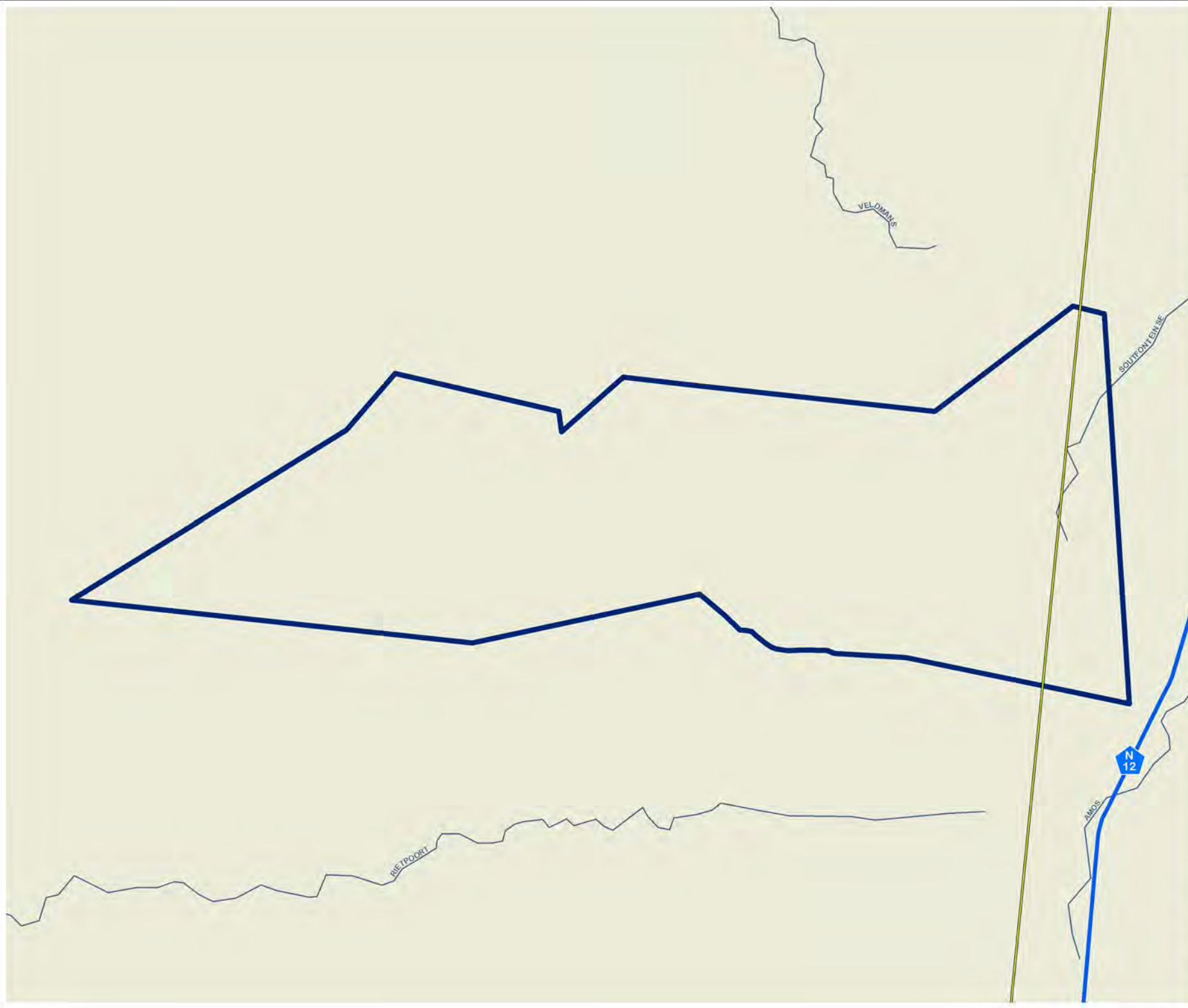
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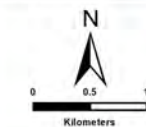
**PROPOSED  
CONSTRUCTION OF THE  
KOUPI 1 WIND ENERGY  
FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
VEGETATION CLASSIFICATION**

**Legend**

-  National Routes
  -  Existing High Voltage Power Lines (400kV)
  -  Rivers
  -  Koupi 1 WEF Application Site
- Vegetation Classification**
-  Gamka Karoo



SOURCE:  
ESKOM, 2012  
NFEPA, 2011  
SANBI, 2018



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<b>Map Ref No</b> 16017/K1_WS05	<b>Revision</b> 0	<b>Date</b> 

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**PROPOSED  
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FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
BROAD LAND COVER  
CLASSIFICATION**

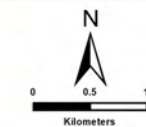
**Legend**

-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Koupi 1 WEF Application Site

**Land Cover Classification**

-  Bare / Barren Land
-  Built-Up Areas
-  Cultivated Land
-  Forested Land
-  Grassland
-  Shrubland
-  Wetlands / Waterbodies

SOURCE:  
ESKOM, 2012  
NFEPA, 2011  
2018 SA NATIONAL LAND COVER  
(© GEOTERRAIMAGE - 2018)

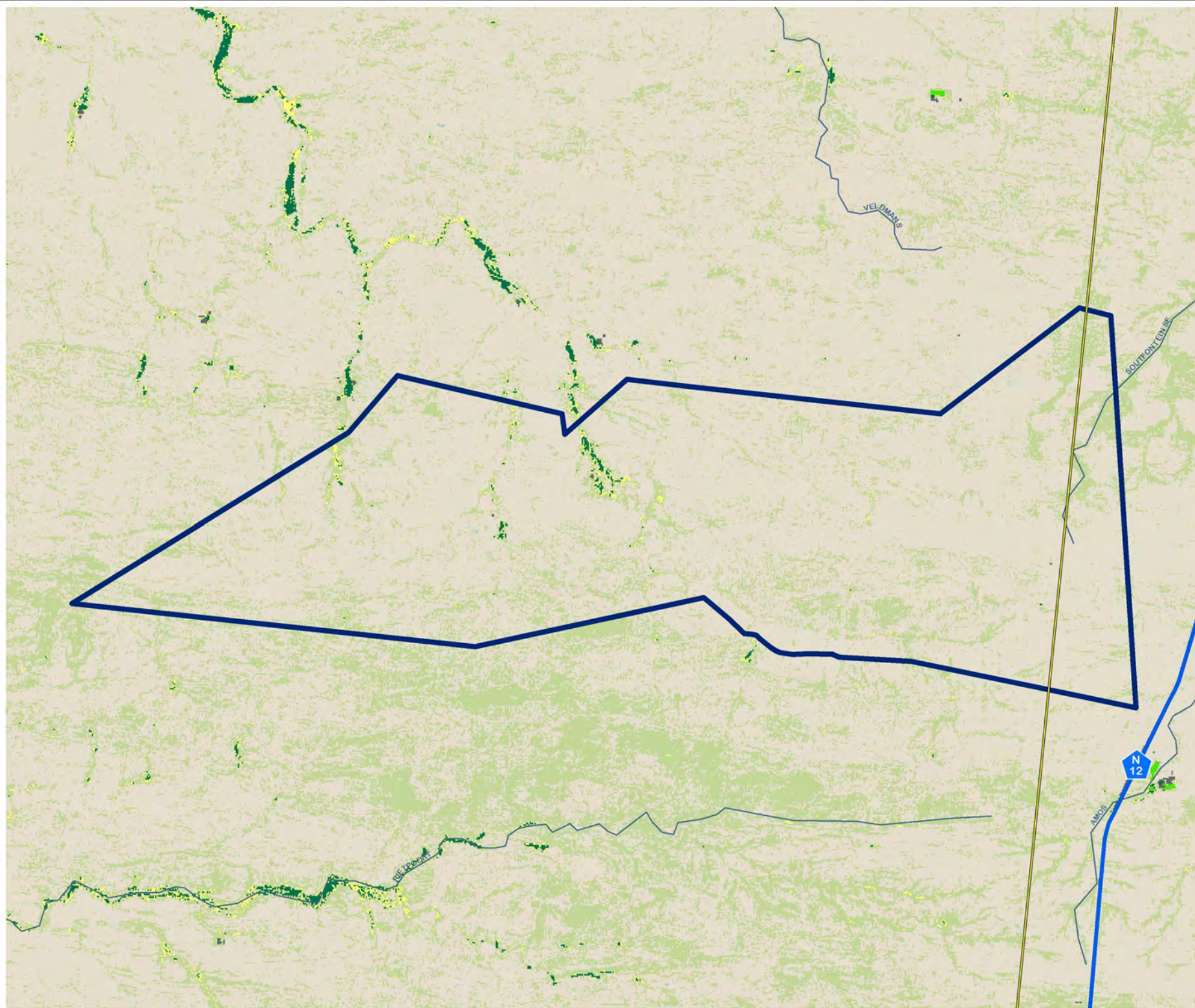


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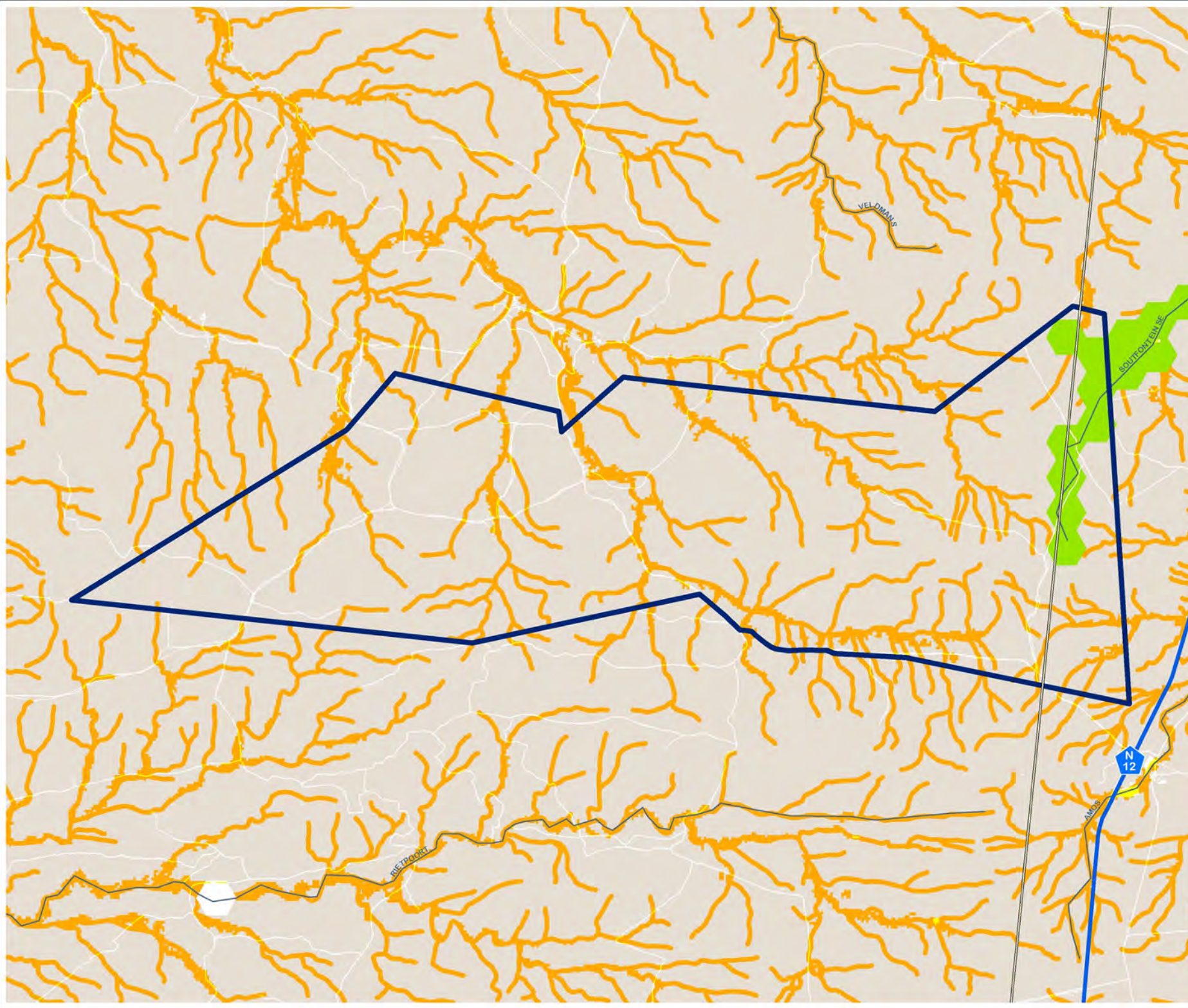




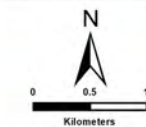
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KOUPI 1 WIND ENERGY  
FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
CRITICAL BIODIVERSITY  
AREAS**

**Legend**

-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Rivers
-  Koupi 1 WEF Application Site
- CBA Classification**
-  CBA 1
-  ESA 1
-  ESA 2
-  Other Natural Areas



SOURCE:  
ESKOM, 2012  
NFEPA, 2011  
WESTERN CAPE BIODIVERSITY SPATIAL PLAN, 2017



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


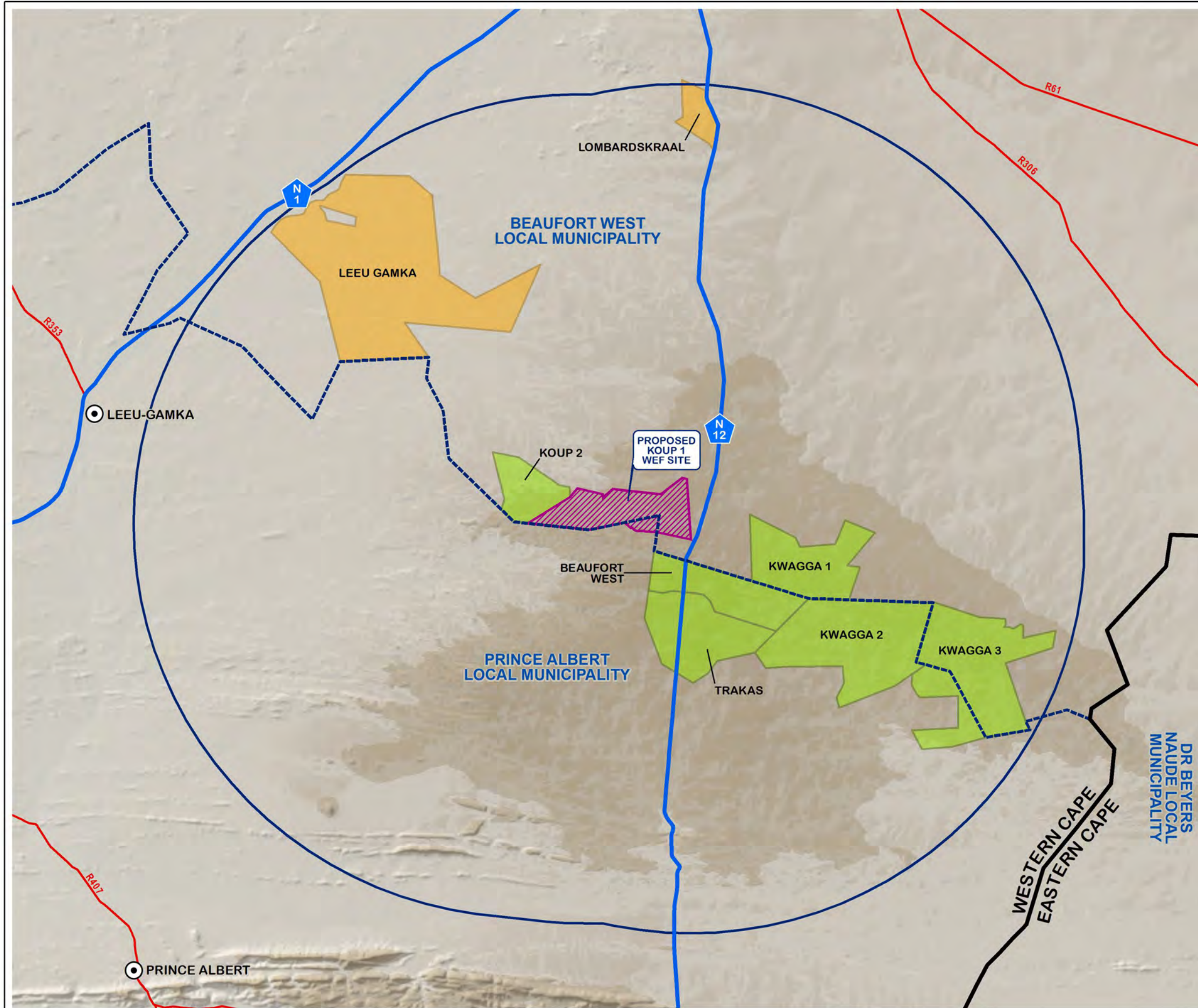
**PROPOSED  
CONSTRUCTION OF THE  
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FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
RENEWABLE ENERGY PROJECTS  
(EXISTING AND PROPOSED)**

**Legend**

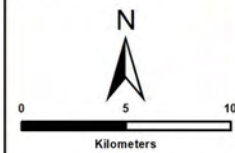
-  Main Towns
-  Provincial Boundary
-  Local Municipal Boundaries
-  National Routes
-  Main Arterial Routes
-  Koup 1 WEF Application Site
-  35km Radius

**Renewable Energy Application Sites**

-  Solar
-  Wind



SOURCE:  
DEFF, 2020  
MUNICIPAL DEMARCATION BOARD, 2016  
NGI, 2014



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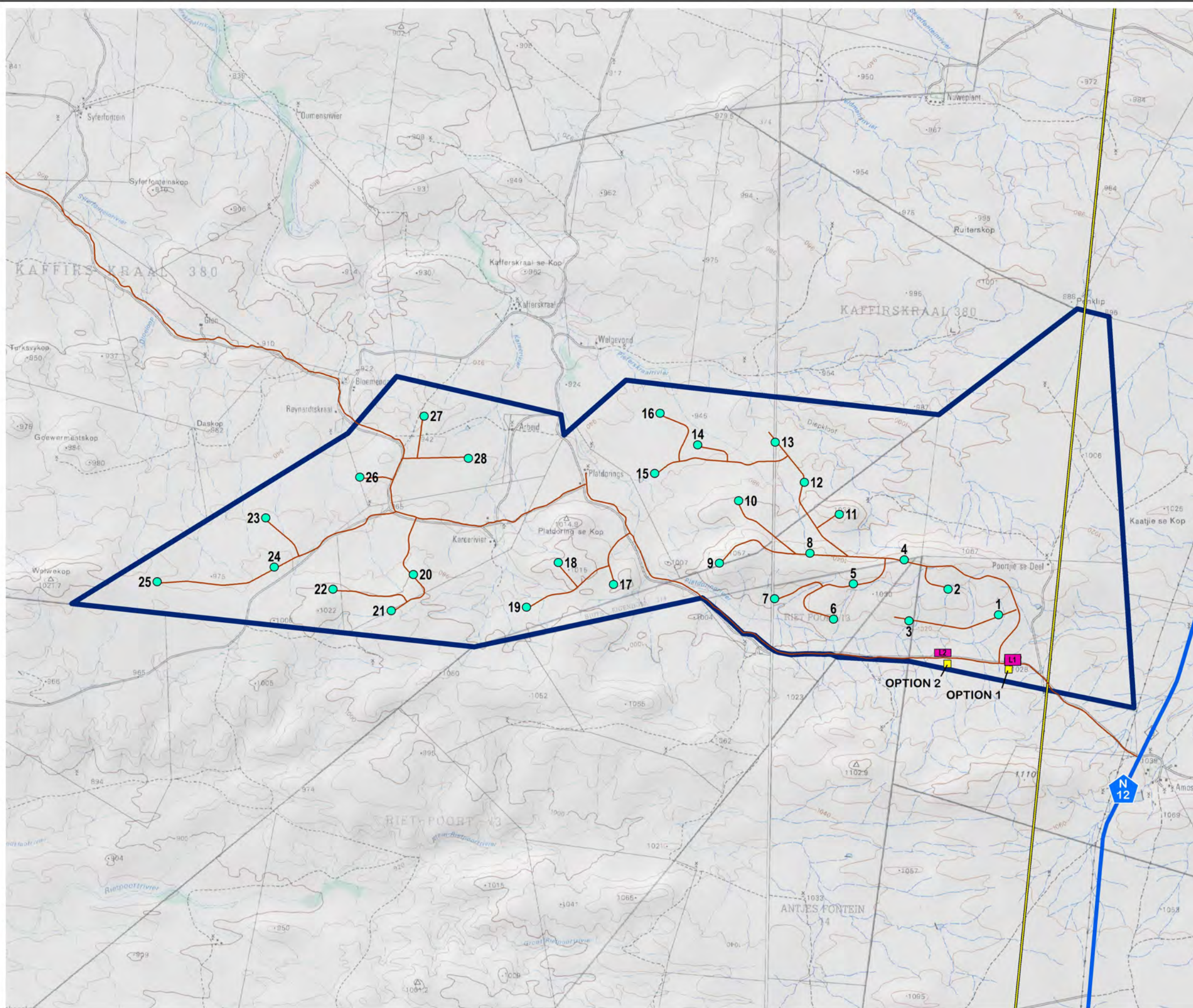
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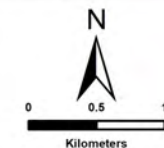
**PROPOSED  
CONSTRUCTION OF THE  
KOUPI 1 WIND ENERGY  
FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
PRELIMINARY LAYOUT**

**Legend**

-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Koupi 1 WEF Application Site
- Proposed WEF Components**
-  Turbine Positions
-  Substation Site Alternatives
-  Construction Laydown Area Site Alternatives
-  Internal Road Network



SOURCE:  
ESKOM, 2012  
NGI, 2014



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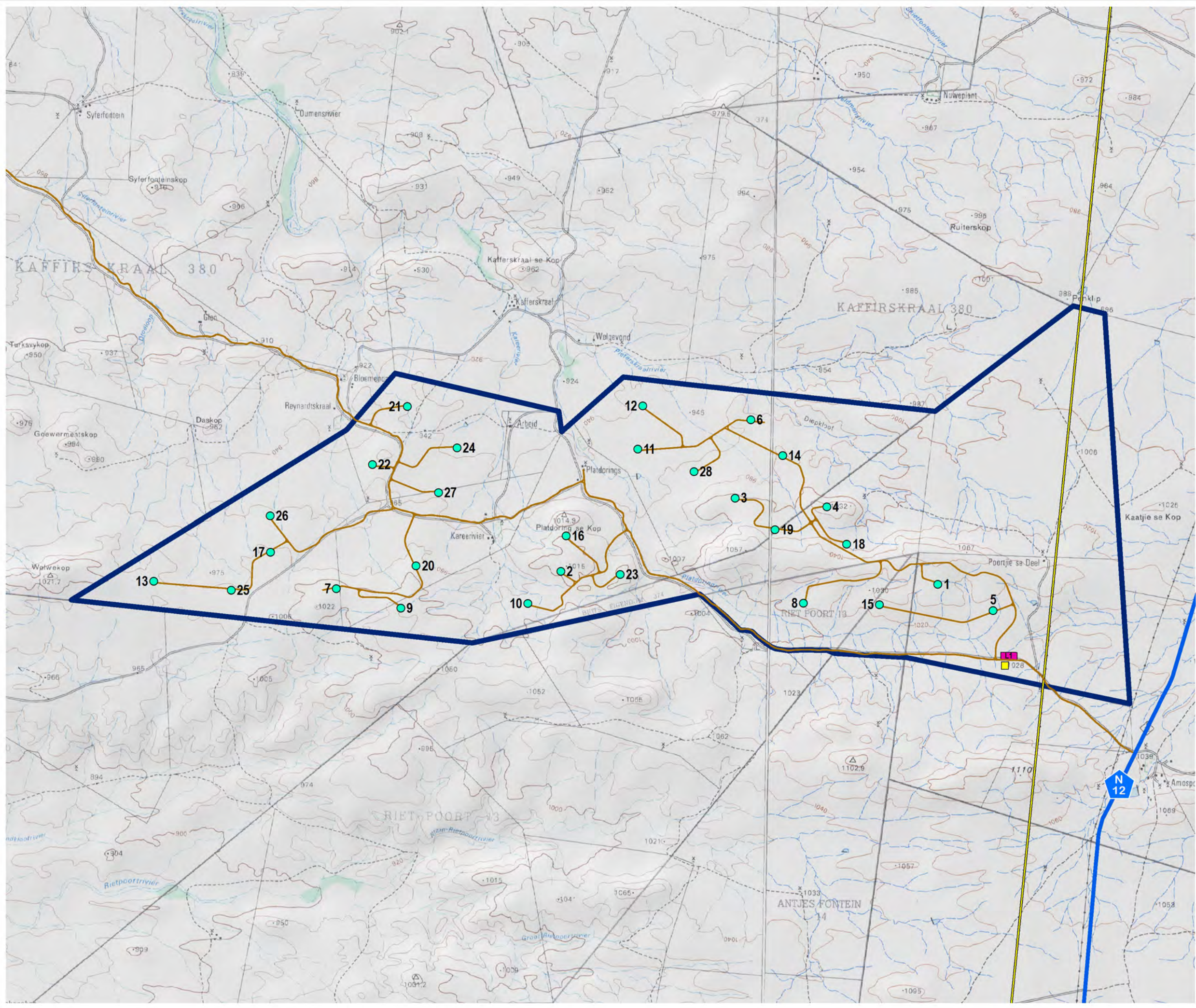
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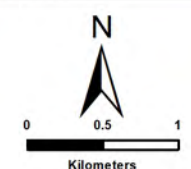
**PROPOSED  
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FACILITY**  
**NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE**  
**PROPOSED LAYOUT**



**Legend**

-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Koupi 1 WEF Application Site
- Proposed WEF Components**
-  Turbine Positions
-  Preferred Substation Site Alternative / BESS
-  Preferred Construction Laydown Area / O&M Building
-  Internal Road Network

SOURCE:  
ESKOM, 2012  
NGI, 2014



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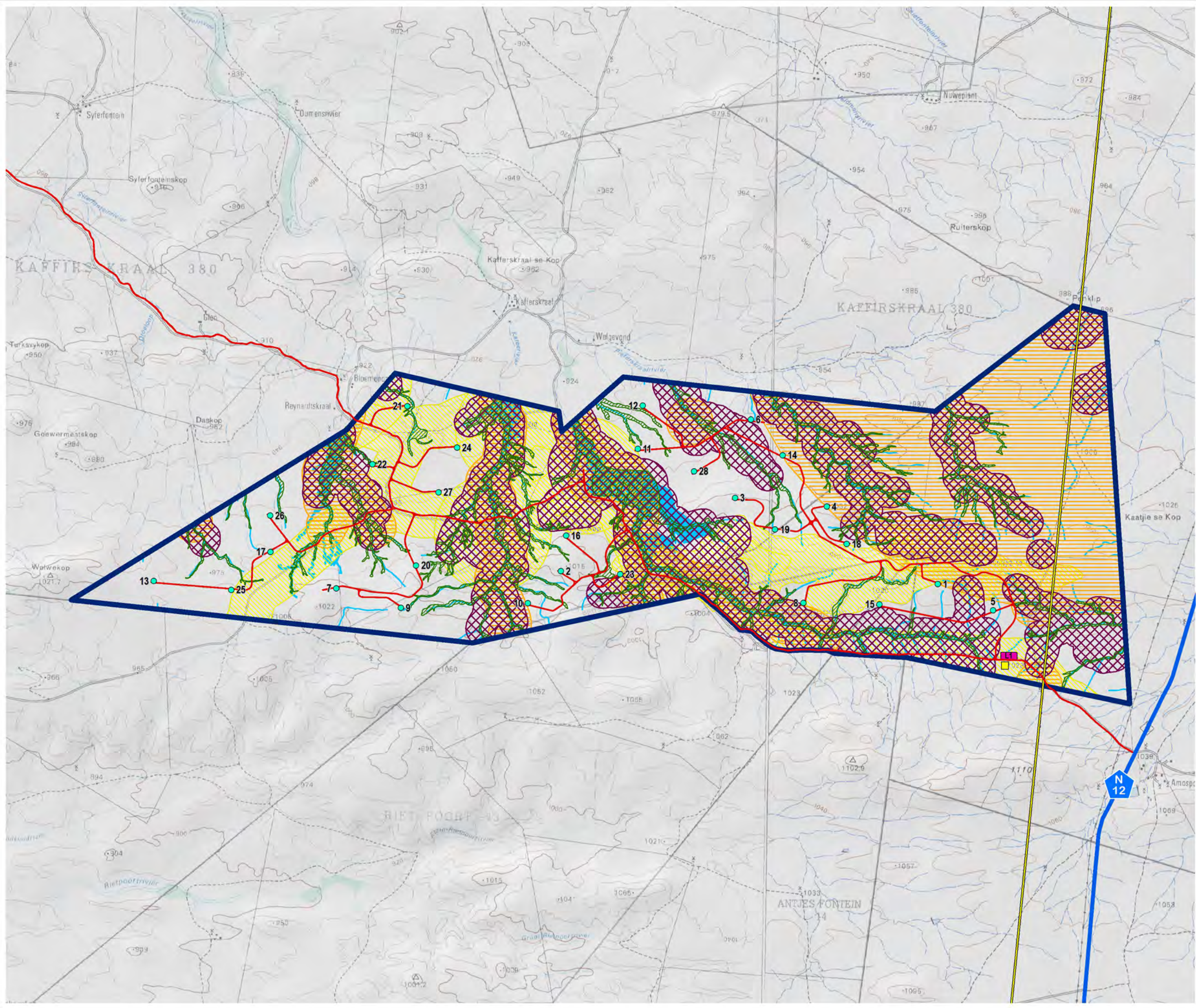
<b>Project No</b> 16017	<b>Prepared By</b> MG	<b>Date</b> 05/04/2022
<b>Map Ref No</b> 16017/K1_WS10	<b>Revision</b> 0	<b>Date</b>

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**PROPOSED  
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FACILITY  
NEAR BEAUFORT WEST,  
WESTERN CAPE PROVINCE  
PROPOSED LAYOUT WITH  
SENSITIVITY OVERLAY**



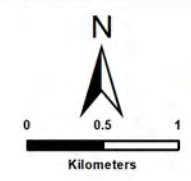
**Legend**

-  National Routes
-  Existing High Voltage Power Lines (400kV)
-  Koupi 1 WEF Application Site
- Proposed WEF Components**
-  Turbine Positions
-  Preferred Substation Site Alternative / BESS
-  Preferred Construction Laydown Area / O&M Building
-  Internal Road Network

**Environmental Sensitivity**

-  Avifaunal Sensitivity (inclusive of 100m buffers)
-  Bat Sensitivity
-  Ecology Sensitivity
-  Heritage Sensitivity
-  Surface Water Features (inclusive of buffers)

SOURCE:  
ESKOM, 2012  
NGI, 2014



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