






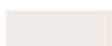
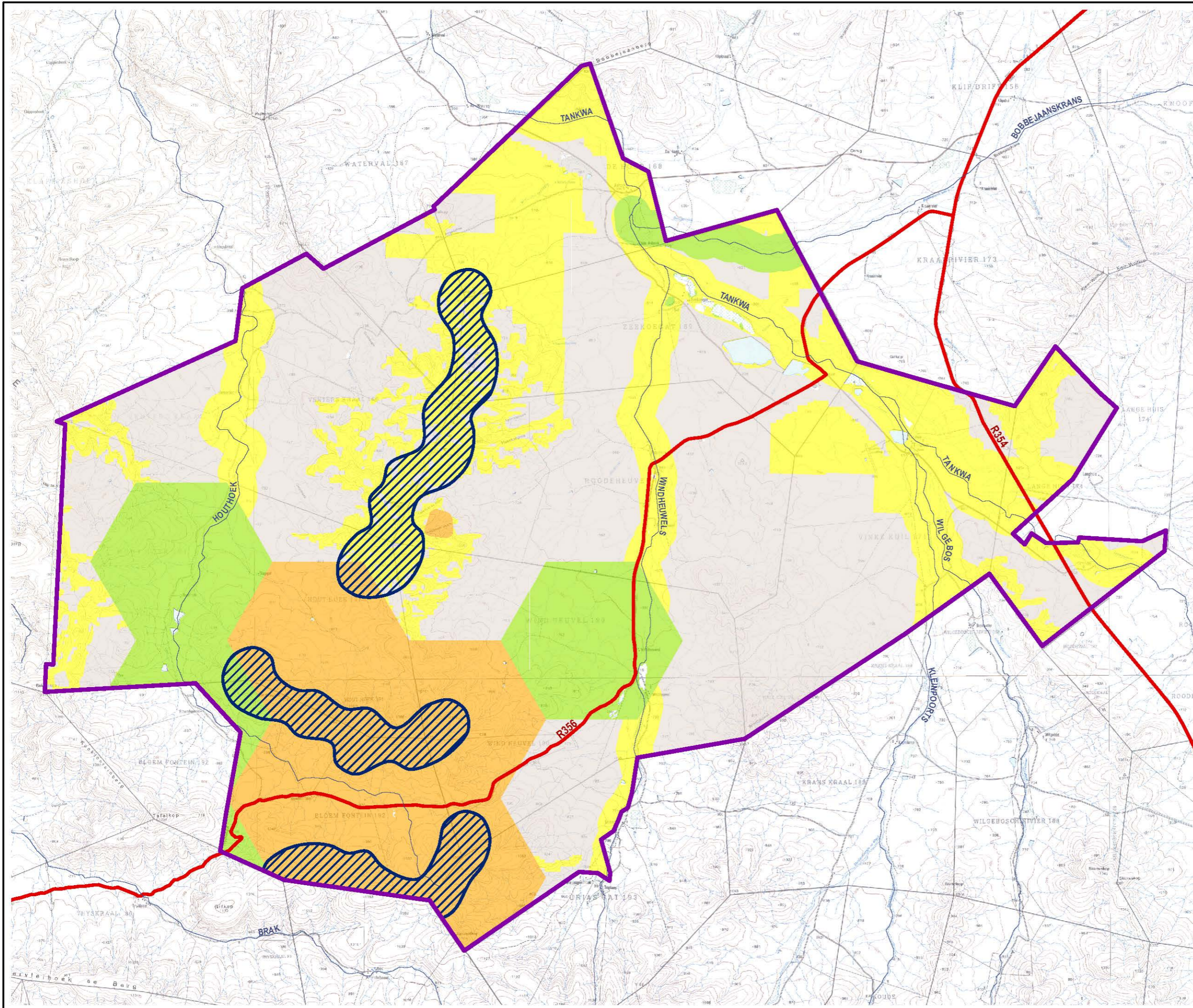


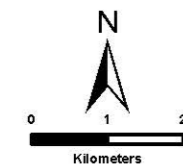
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
CRITICAL BIODIVERSITY AREAS**

Legend

-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  Turbine Development Sectors
- Critical Biodiversity Areas**
-  CBA 1
-  CBA 2
-  ESA
-  Other Natural Areas



SOURCE:
NFEPA, 2011
NORTHERN CAPE DEPT. OF ENVIRONMENT AND NATURE
CONSERVATION, 2016



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Map Ref No 15260/S_09	Revision 0	Date

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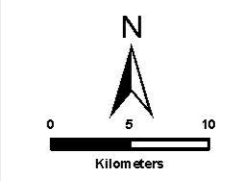
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**PROPOSED
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RONDEKOP WIND ENERGY
FACILITY**
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
OTHER PROPOSED RENEWABLE
ENERGY DEVELOPMENTS WITHIN
50KM RADIUS

Legend

-  Main Towns
-  Provincial Boundaries
-  District Municipal Boundaries
-  Main Roads
-  Main Rivers
-  Rondekop Application Site
-  50km Radius
- Renewable Energy Application Sites**
-  Onshore Wind
-  Solar PV

SOURCE:
DEA, 2018
G7 RENEWABLE ENERGIES (PTY) LTD
NFEPA, 2011
NGI, 2014

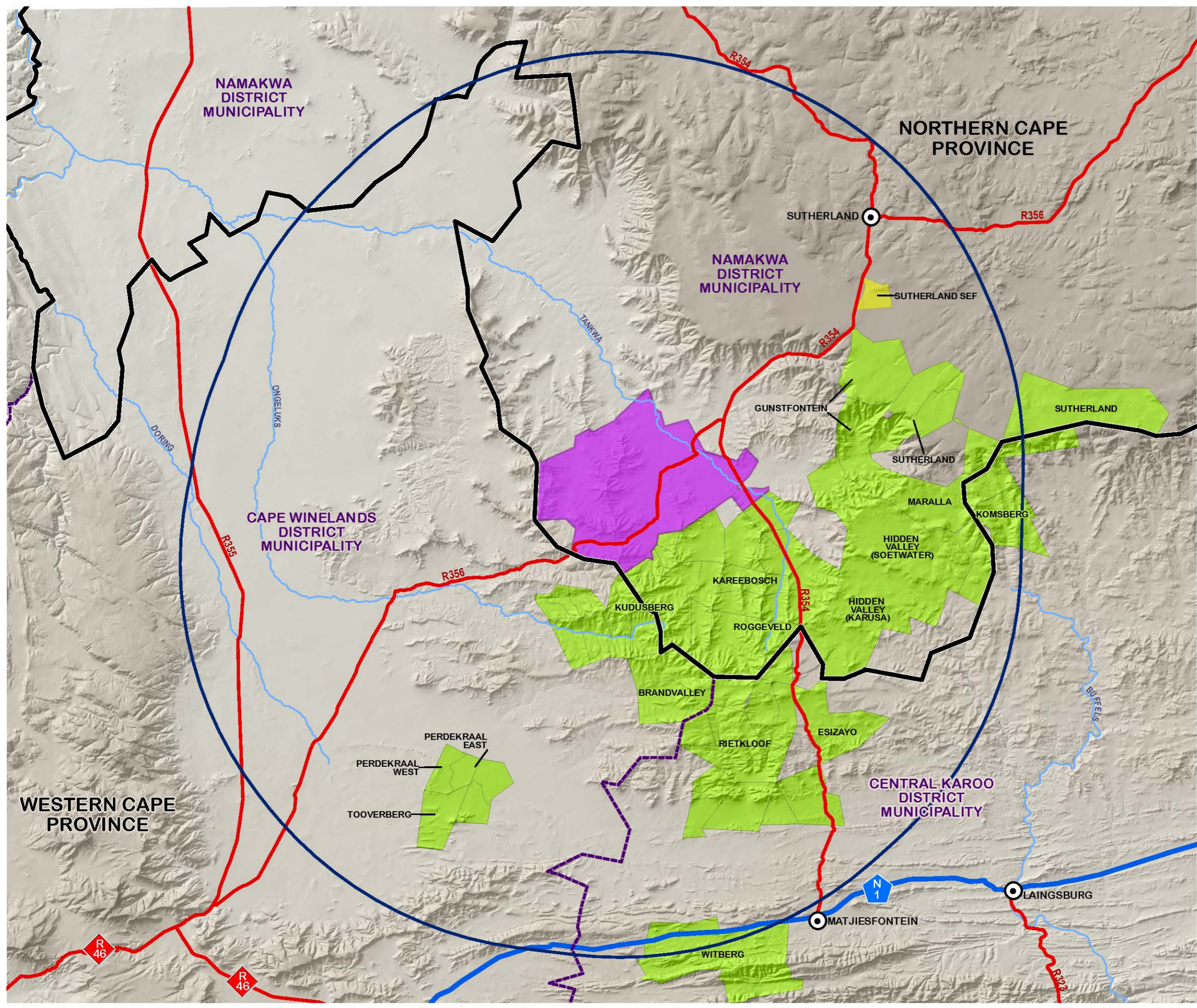


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Project No 15200	Prepared By KLS	Date 28/09/2018
Map Ref No 15260/S_08	Revision 0	Date

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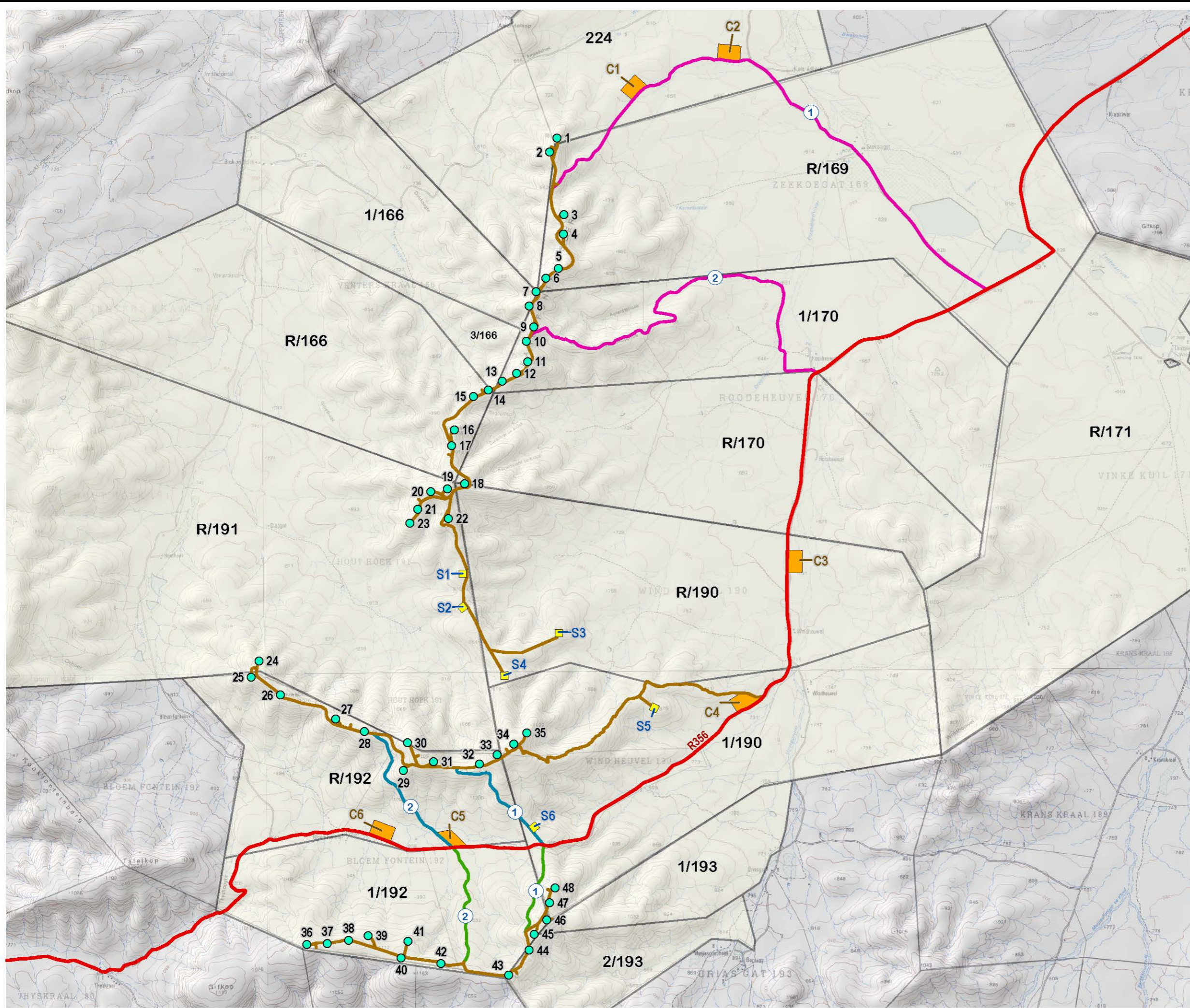
PROPOSED CONSTRUCTION OF THE RONDEKOP WIND ENERGY FACILITY

NEAR SUTHERLAND, NORTHERN CAPE PROVINCE

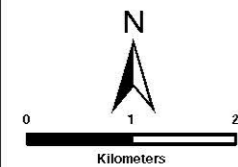
PROJECT OVERVIEW

Legend

-  Main Roads
-  Component Farm Portions
-  Proposed Turbine Positions
-  Construction Camp Alternatives
-  Substation Site Alternatives
-  Access Road Alternatives (North Ridge)
-  Access Road Alternatives (Centre Ridge)
-  Access Road Alternative (South Ridge)
-  Turbine and Substaion Access Roads



SOURCE:
NGI, 2014



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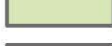



Project No 15260	Prepared By KLS	Date 12/10/2018
Map Ref No 15260/S_01	Revision 0	Date

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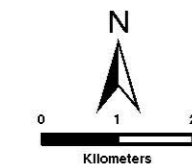
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**PROPOSED
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RONDEKOP WIND ENERGY
FACILITY**
**NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE**
**BROAD LAND COVER
CLASSIFICATION**

Legend

-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  Turbine Development Sectors
- Land Cover Classification**
-  Bare (None Vegetated)
-  Cultivation
-  Grassland
-  Low Shrubland
-  Mines / Quarries
-  Shrubland Fynbos
-  Thicket / Dense Bush
-  Wetlands / Waterbodies
-  Woodland / Open Bush

SOURCE:
NFPEA, 2011
2013-2014 SA NATIONAL LAND COVER
(© GEOTERRAIMAGE - 2014)

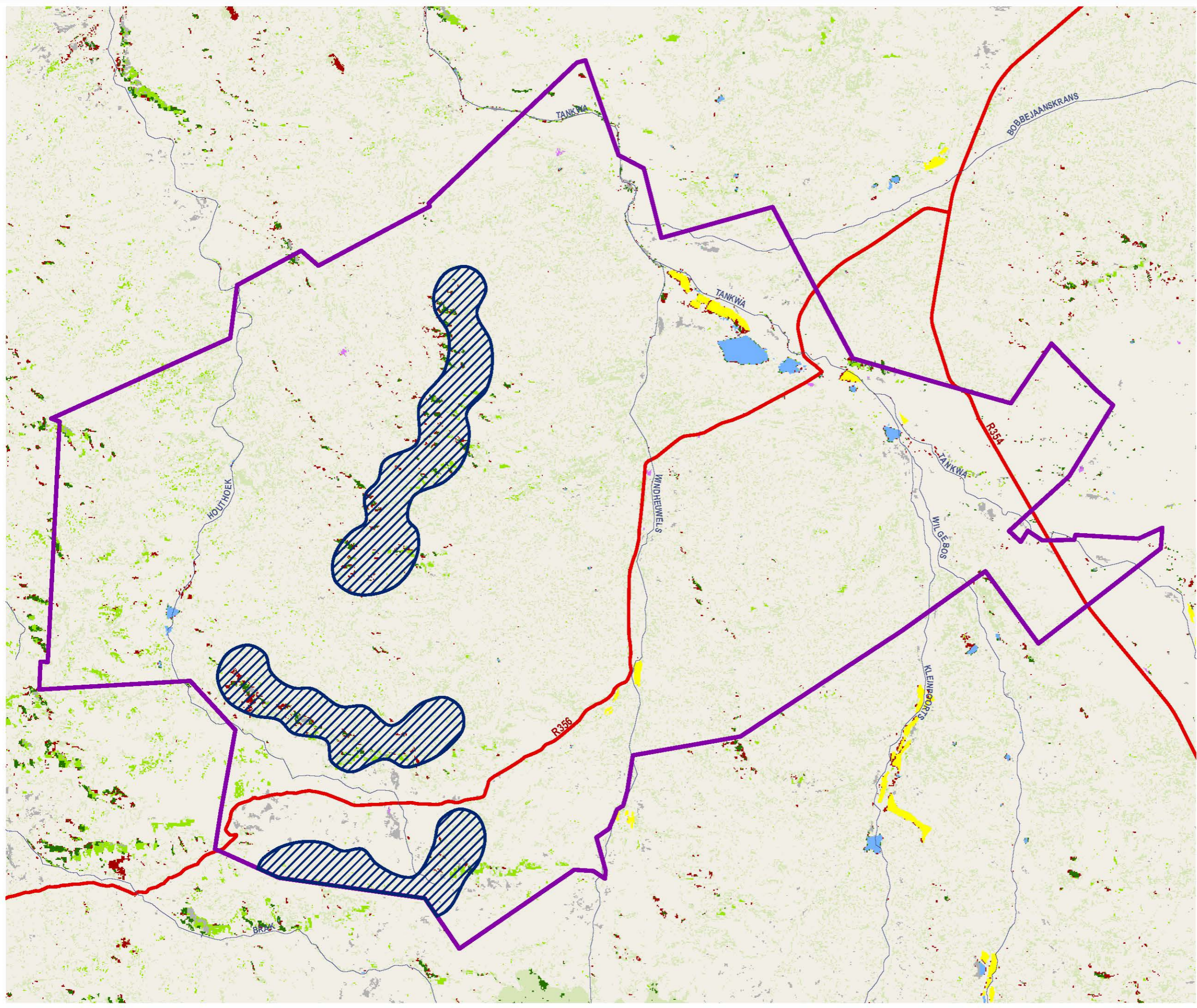


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Map Ref No 15260/S_07	Revision 0	Date











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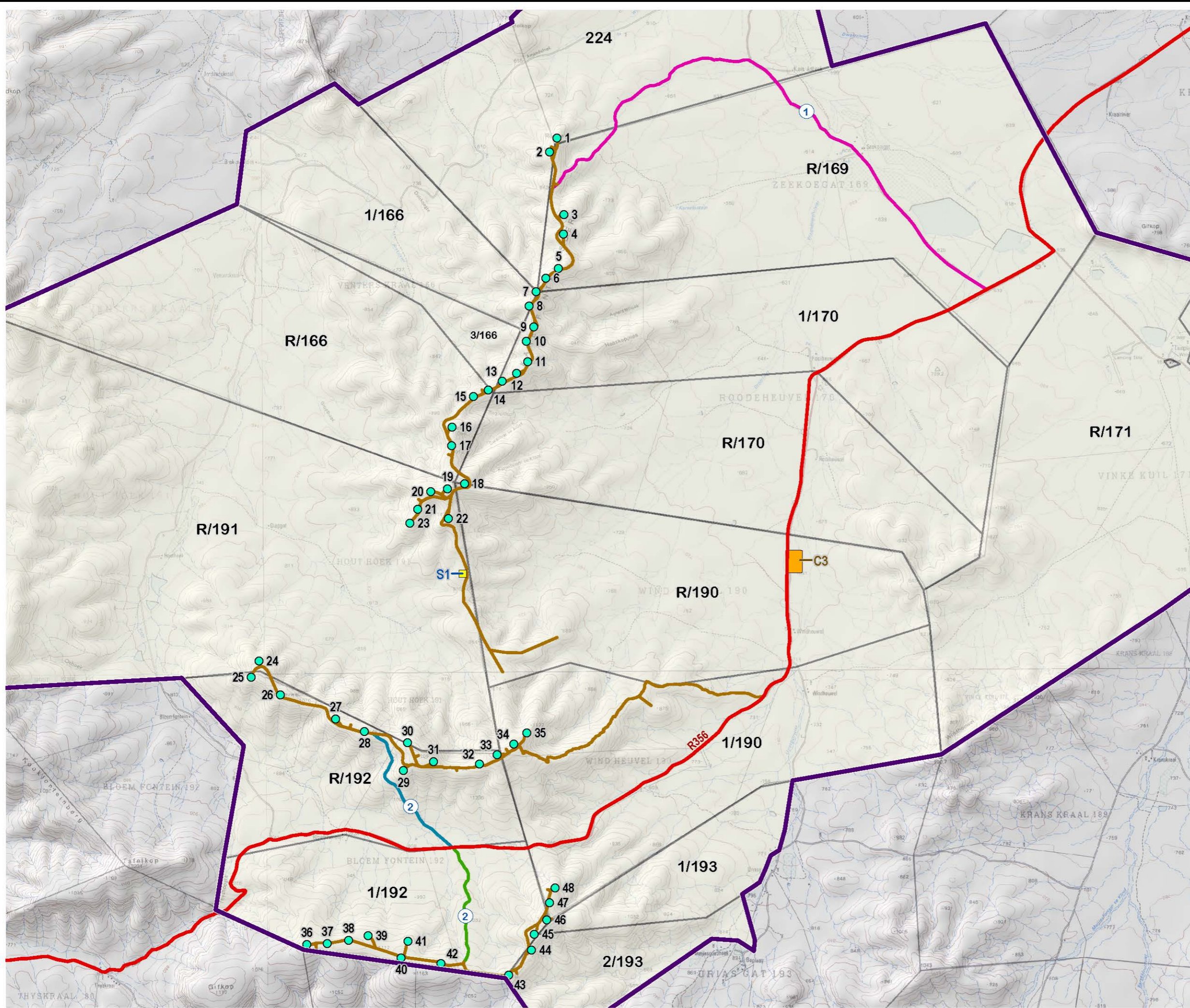
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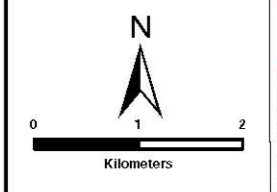
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
PREFERRED LAYOUT**

Legend

-  Main Roads
-  Rondekop WEF Application Site
-  Component Farm Portions
-  Proposed Turbine Positions
-  Construction Camp Alternative 3
-  Substation Site Alternative 1
-  North Ridge Access Road (Alternative 1)
-  Centre Ridge Access Road (Alternative 2)
-  South Ridge Access Road (Alternative 2)
-  Turbine and Substation Access Roads



SOURCE:
NGI, 2014



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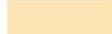


Project No 15260	Prepared By KLS	Date 14/03/2019
Map Ref No 15260/E_03	Revision 0	Date

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**PROPOSED
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FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
PREFERRED LAYOUT WITH
SENSITIVITY OVERLAY**

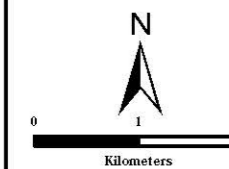
Legend

-  Main Roads
 -  Rondekop WEF Application Site
 -  Proposed Turbine Positions
 -  Construction Camp Alternative 3
 -  Substation Site Alternative 1
 -  North Ridge Access Road (Alternative 1)
 -  Centre Ridge Access Road (Alternative 2)
 -  South Ridge Access Road (Alternative 2)
 -  Turbine and Substation Access Roads
- Critical Biodiversity Areas**
-  CBA 1
 -  CBA 2
 -  ESA
 -  Other Natural Areas

Sensitivity Layers

-  Avifaunal Sensitivity: Very High (Inclusive of 200m Buffers)*
 -  Bat Sensitivity: Very High (Inclusive of 200m Buffers)*
 -  Ecological Sensitivity: High
 -  Heritage Sensitivity (Inclusive of 50m Buffers)
 -  Noise Sensitivity (Inclusive of 500m Buffers)*
 -  Visual Sensitivity (Inclusive of 500m Exclusion Zone)*
 -  Watercourses
 -  Watercourse Buffers (32m)
- * Sensitivity relates to wind turbines only*

SOURCE:
NGI, 2014
NORTHERN CAPE DEPT. OF ENVIRONMENT AND NATURE
CONSERVATION, 2016

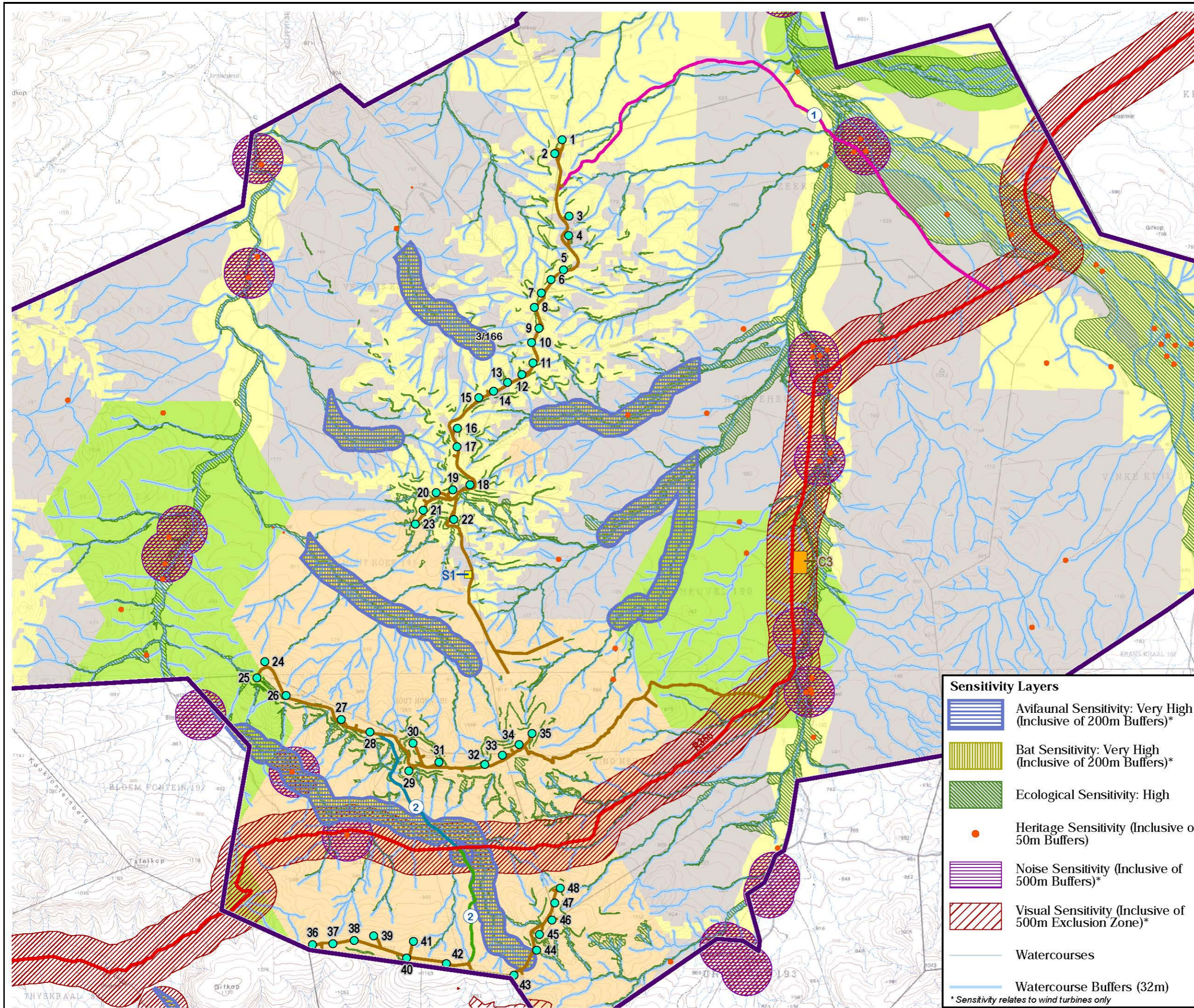


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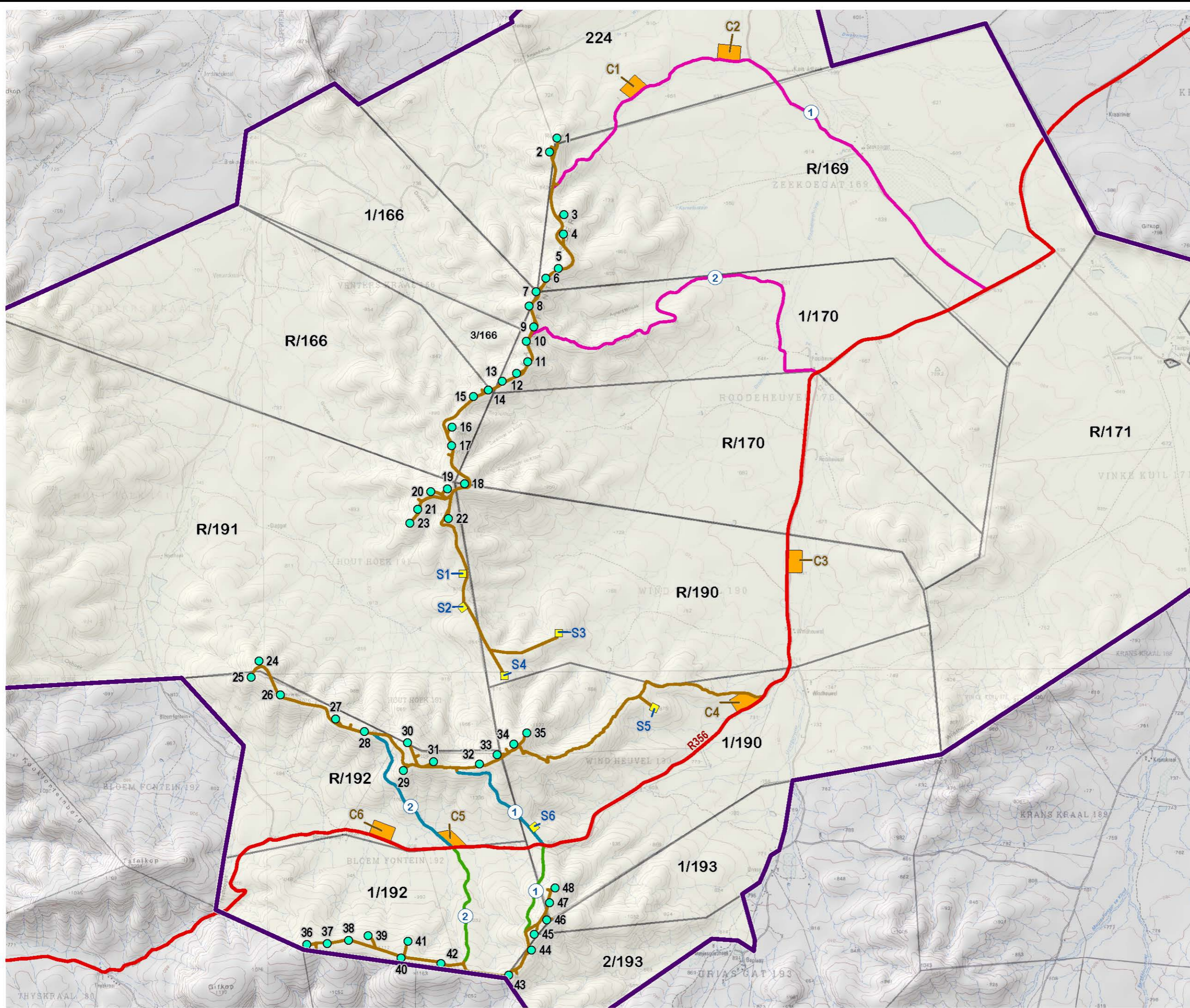
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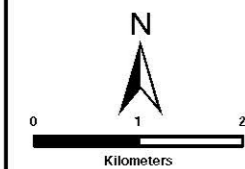
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
REFINED LAYOUT**

Legend

-  Main Roads
-  Rondekop WEF Application Site
-  Component Farm Portions
-  Proposed Turbine Positions
-  Construction Camp Alternatives
-  Substation Site Alternatives
-  Access Road Alternatives (North Ridge)
-  Access Road Alternatives (Centre Ridge)
-  Access Road Alternative (South Ridge)
-  Turbine and Substation Access Roads



SOURCE:
NGI, 2014



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**PROPOSED
CONSTRUCTION OF THE
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FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
REFINED SENSITIVITY
OVERLAY**

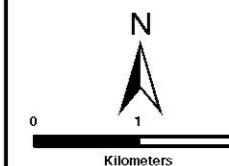
Legend

-  Main Roads
-  Rondekop WEF Application Site
-  Proposed Turbine Positions
-  Construction Camp Alternatives
-  Substation Site Alternatives
-  Access Road Alternatives (North Ridge)
-  Access Road Alternatives (Centre Ridge)
-  Access Road Alternative (South Ridge)
-  Turbine and Substation Access Roads

Sensitivity Layers

-  Avifaunal Sensitivity: Very High (Inclusive of 200m Buffers)*
 -  Bat Sensitivity: Very High (Inclusive of 200m Buffers)*
 -  Ecological Sensitivity: High
 -  Heritage Sensitivity (Inclusive of 50m Buffers)
 -  Noise Sensitivity (Inclusive of 500m Buffers)*
 -  Visual Sensitivity (Inclusive of 500m Exclusion Zone)*
 -  Watercourses
 -  Watercourse Buffers (32m)
- * Sensitivity relates to wind turbines only

SOURCE:
NGI, 2014

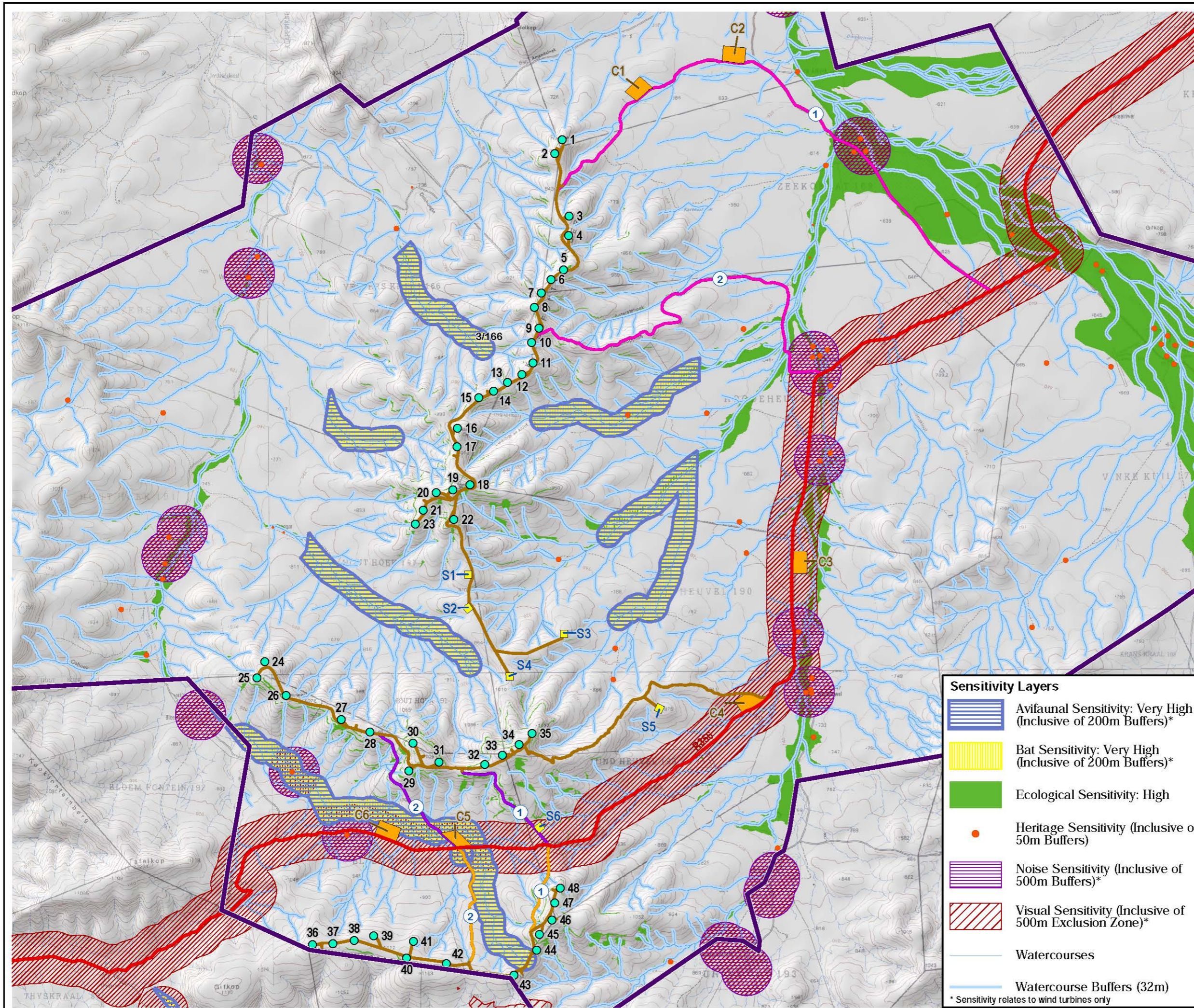


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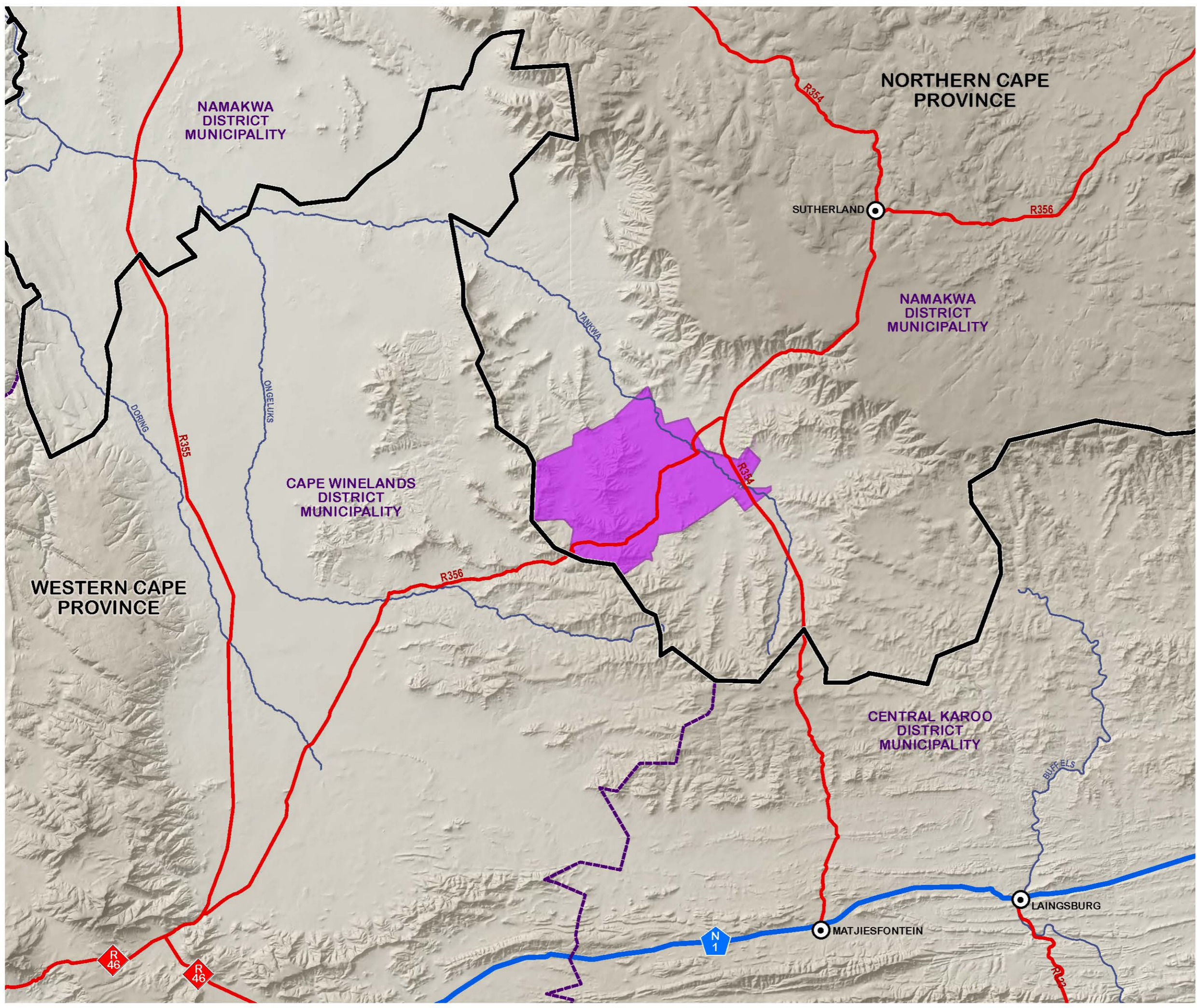
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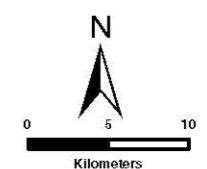
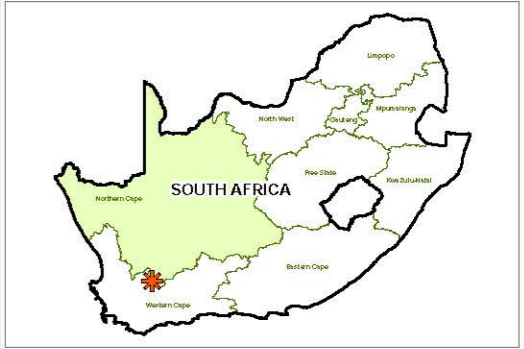
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
REGIONAL CONTEXT**

Legend

-  Main Towns
-  Provincial Boundaries
-  District Municipal Boundaries
-  Main Roads
-  Main Rivers
-  Rondekop WEF Application Site



SOURCE:
NFPA, 2011
NGI, 2014



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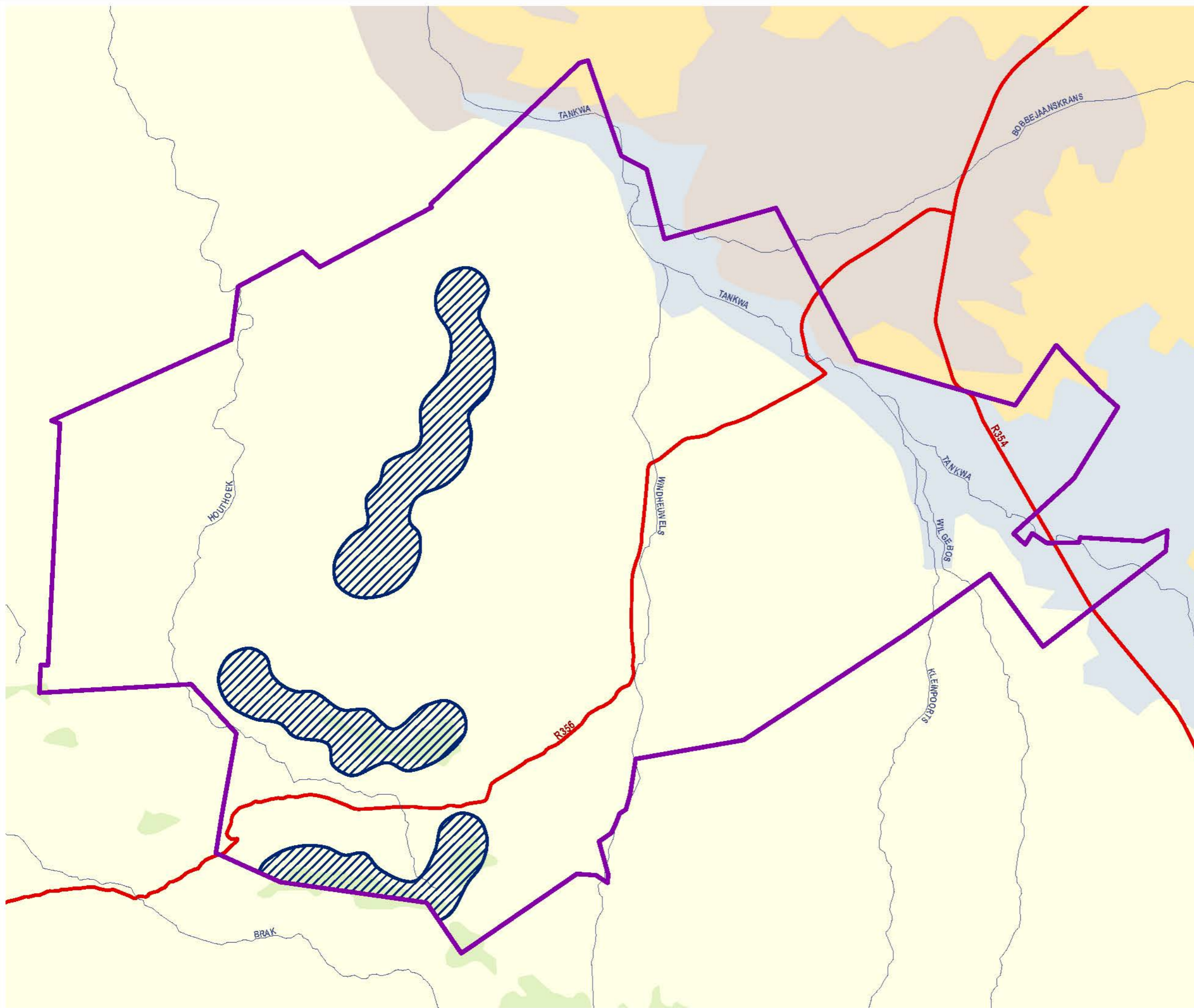
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VEGETATION CLASSIFICATION**

Legend

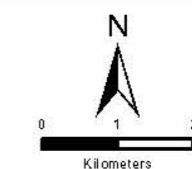
-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  Turbine Development Sectors

Vegetation Classification

-  Central Mountain Shale Renosterveld
-  Koedoesberge - Moordenaars Karoo
-  Tanqua Escarpment Shrubland
-  Tanqua Karoo
-  Tanqua Wash Riviere



SOURCE:
NFEPA, 2011
SANBI, 2012



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**PROPOSED
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FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
PRELIMINARY SENSITIVITY
OVERLAY**

Legend

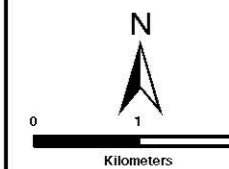
-  Main Roads
-  Proposed Turbine Positions
-  Construction Camp Alternatives
-  Substation Site Alternatives
-  Access Road Alternatives (North Ridge)
-  Access Road Alternatives (Centre Ridge)
-  Access Road Alternative (South Ridge)
-  Turbine and Substaion Access Roads

Sensitivity Layers

-  Heritage Sensitivity
-  Noise Sensitivity*
-  Visual Sensitivity*
-  Watercourses
-  Watercourse Buffers (32m)

* Sensitivity relates to wind turbines only

SOURCE:
NGI, 2014

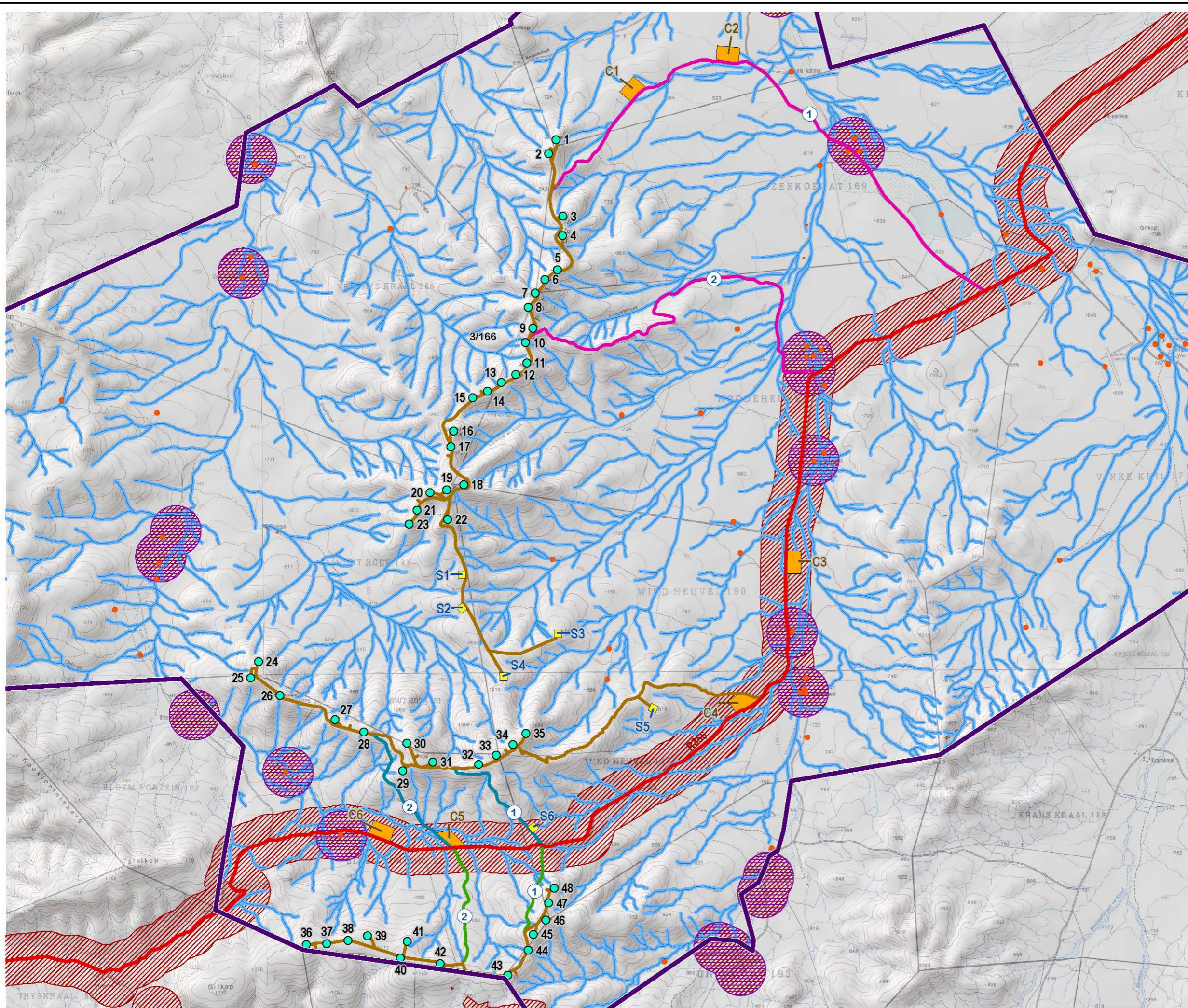


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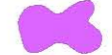
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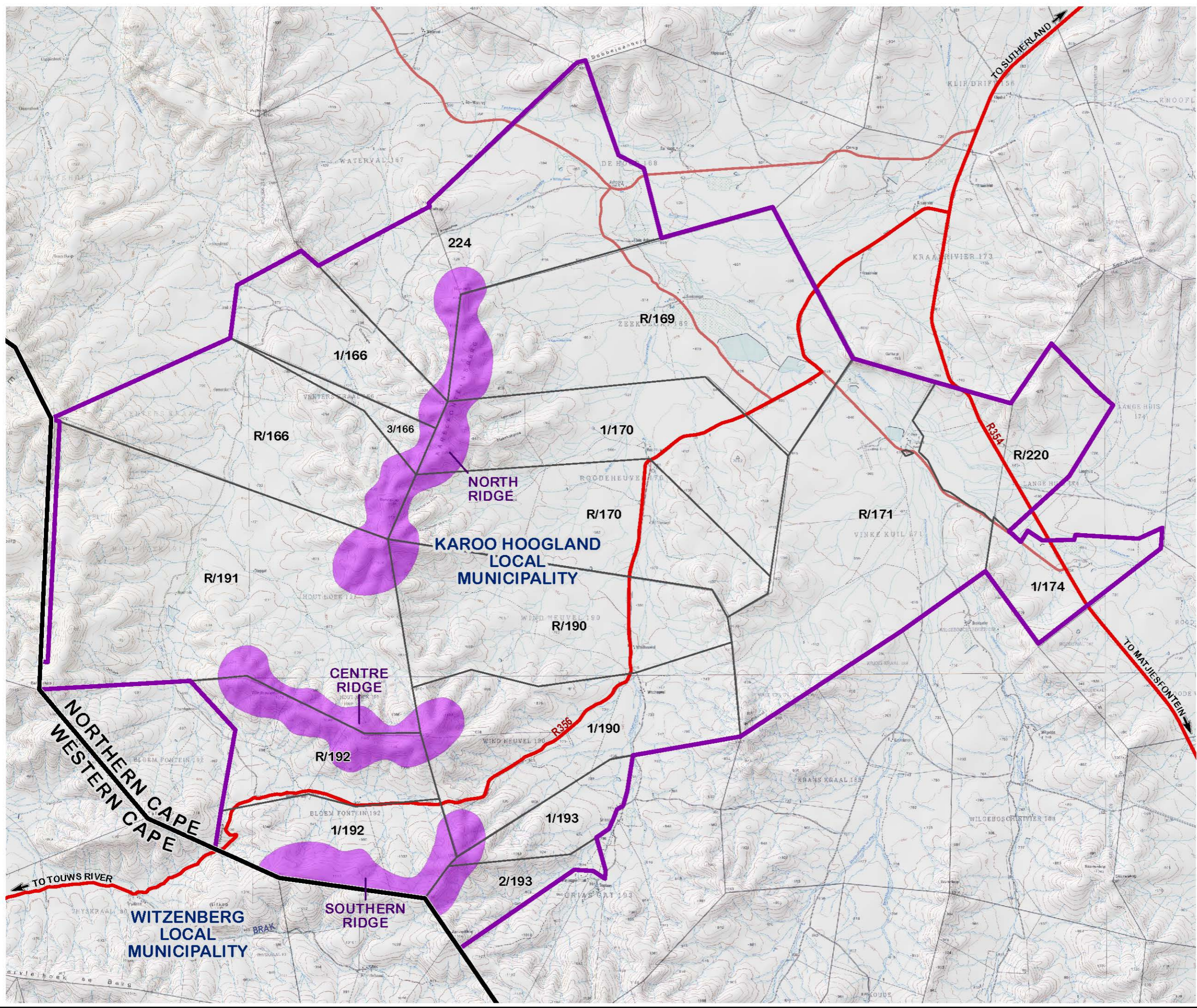
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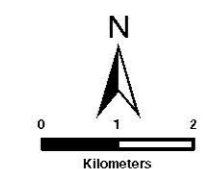
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
SITE LOCALITY**

Legend

-  Provincial Boundaries
-  Main Roads
-  Secondary Roads
-  Rivers
-  Rondekop WEF Application Site
-  Component Farm Portions
-  Turbine Development Sectors



SOURCE: DEMARCATION BOARD, 2011
NGI, 2014



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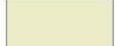





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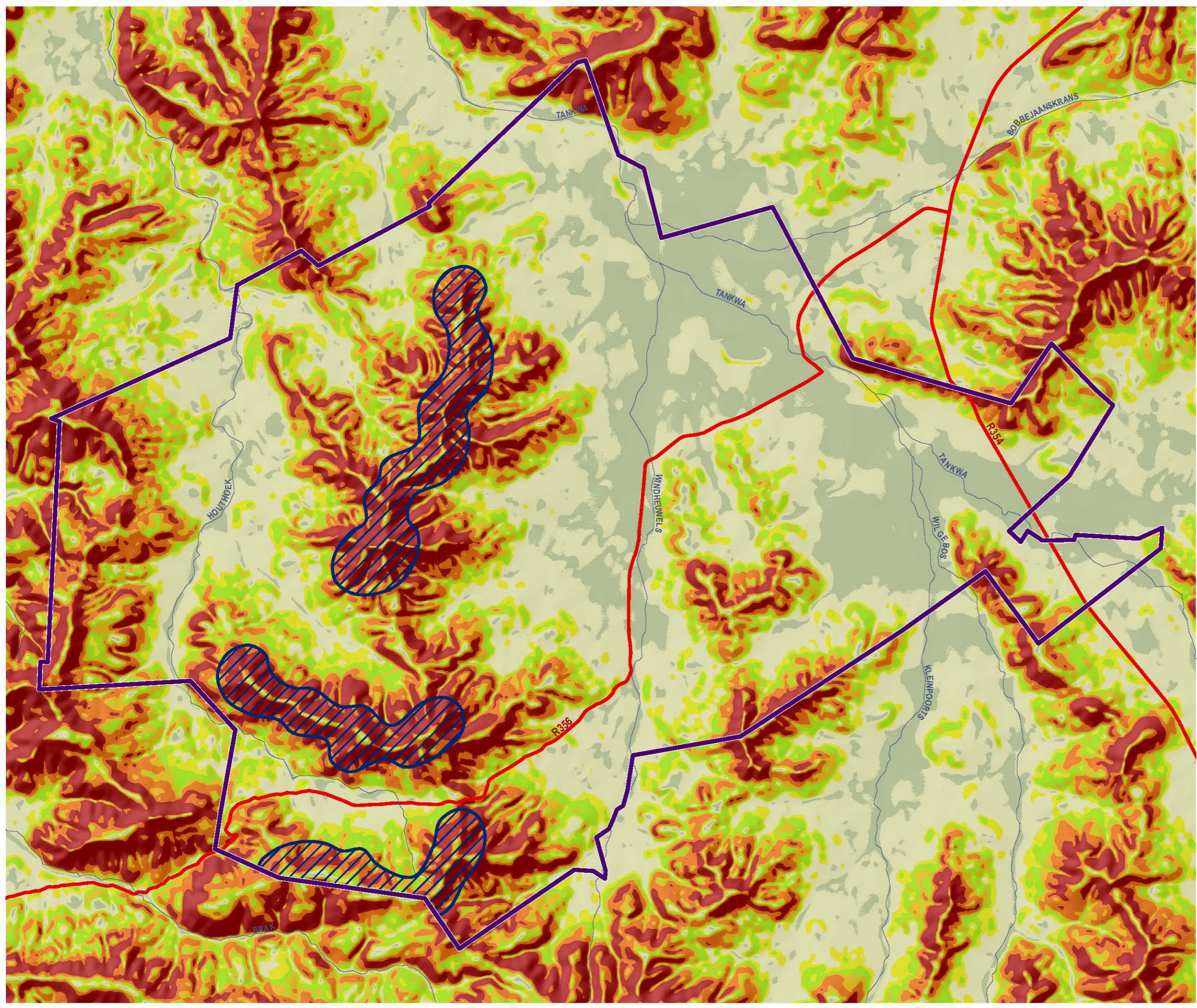
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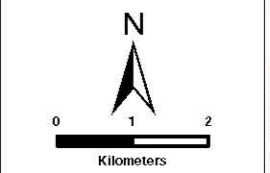
**PROPOSED
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NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
SLOPE CLASSIFICATION**

Legend

-  Main Roads
 -  Rivers
 -  Rondekop WEF Application Site
 -  Turbine Development Sectors
- 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:
NGI, 2014
NFEP, 2011



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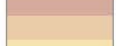
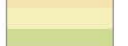

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Map Ref No 15260/S_05	Revision 0	Date

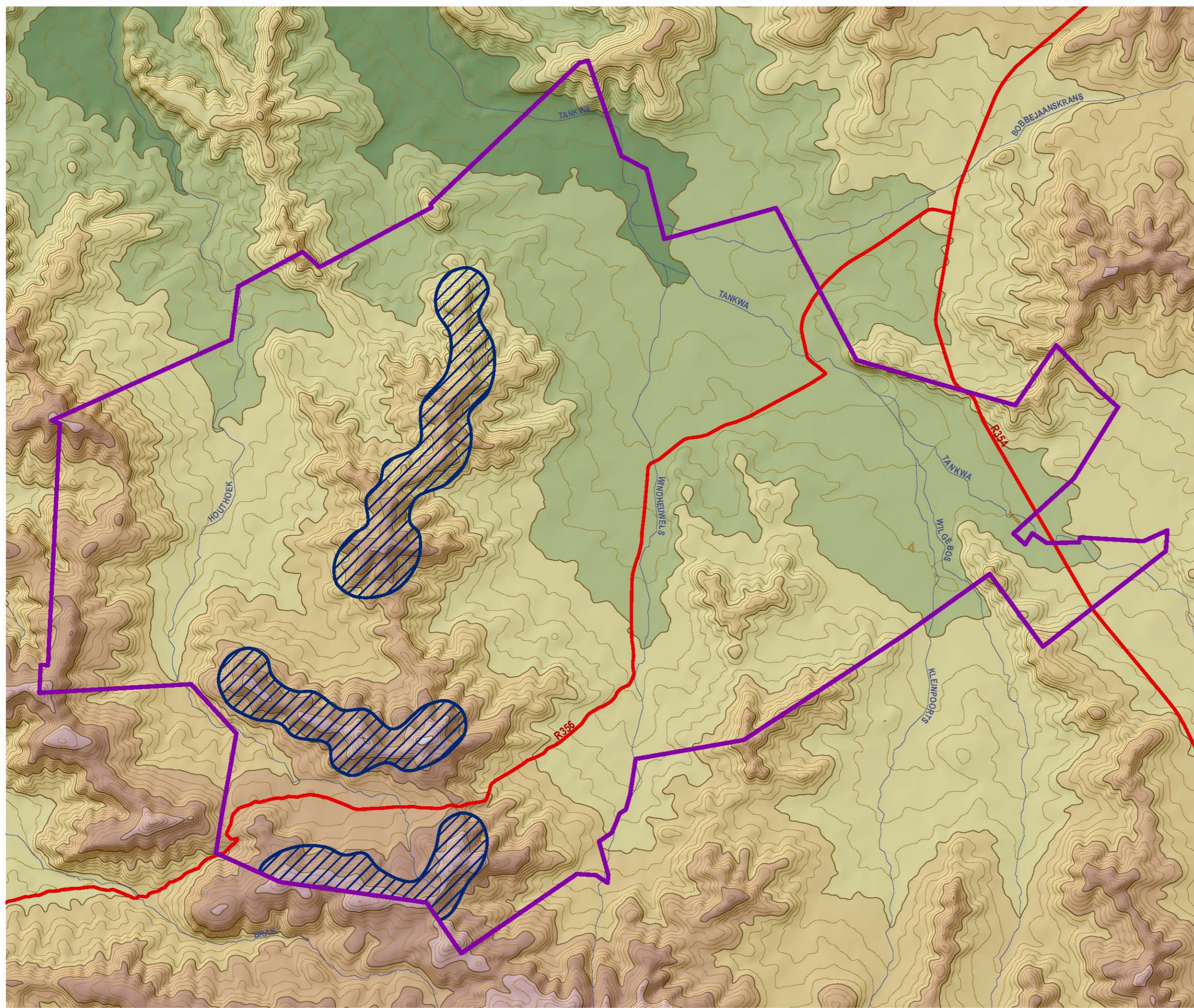
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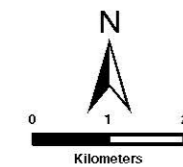
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
TOPOGRAPHY**

Legend

-  Main Roads
 -  Rivers
 -  Contours (100m Interval)
 -  Contours (20m Interval)
 -  Rondekop WEF Application Site
 -  Turbine Development Sectors
- Elevation (msl)**
-  High: >1,200m
 - 
 - 
 -  Low: <=600m



SOURCE:
NGI, 2014
NFPA, 2011



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Map Ref No 15260/S_04	Revision 0	Date

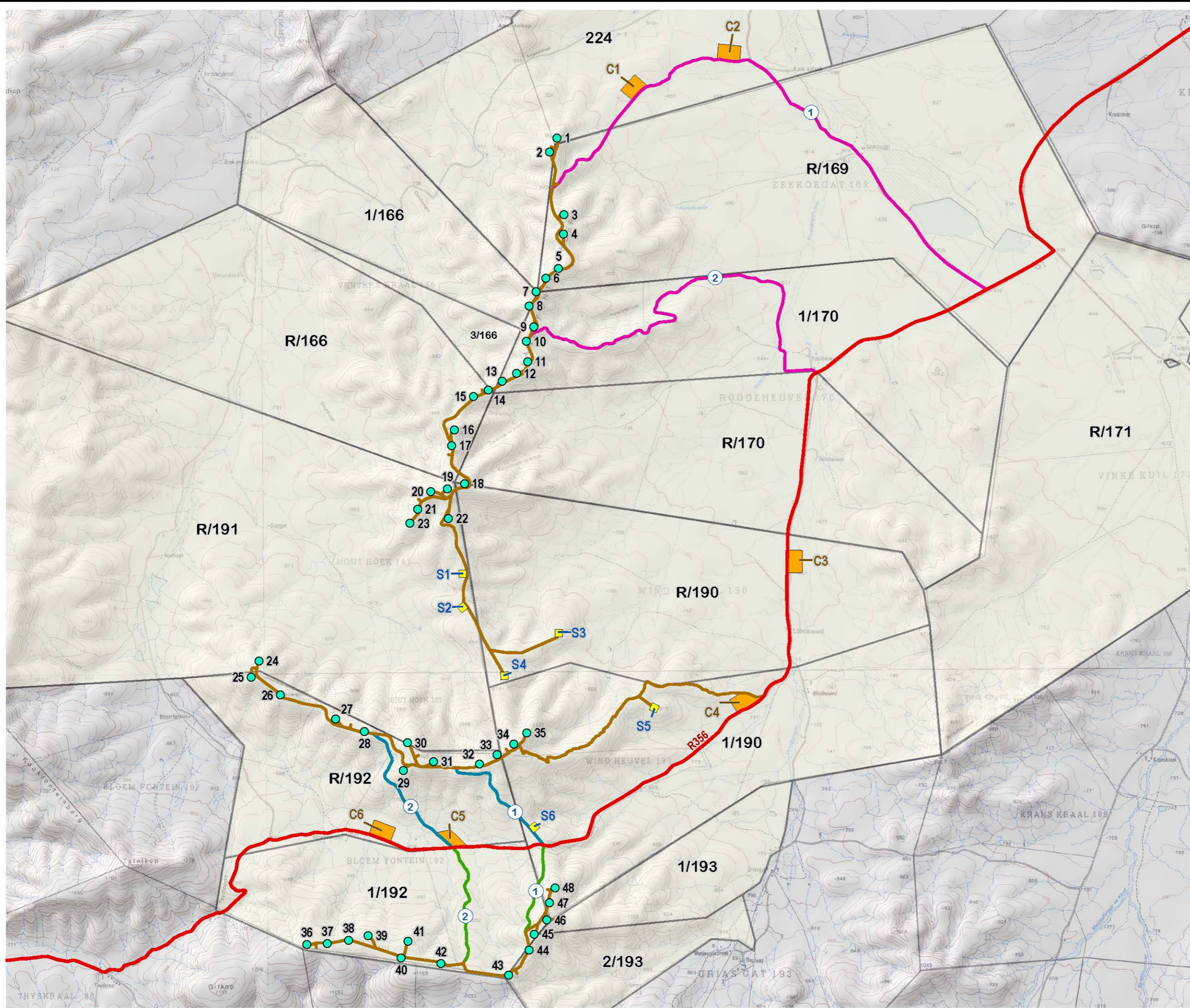
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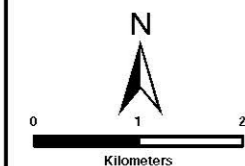
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
PROJECT OVERVIEW**

Legend

-  Main Roads
-  Component Farm Portions
-  Proposed Turbine Positions
-  Construction Camp Alternatives
-  Substation Site Alternatives
-  Access Road Alternatives (North Ridge)
-  Access Road Alternatives (Centre Ridge)
-  Access Road Alternative (South Ridge)
-  Turbine and Substation Access Roads



SOURCE:
NGI, 2014



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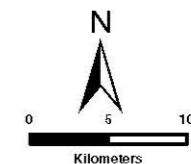
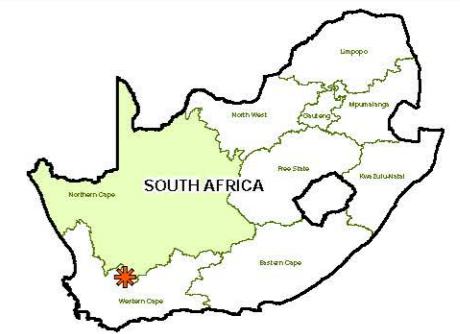
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RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
REGIONAL CONTEXT**

Legend

-  Main Towns
-  Provincial Boundaries
-  District Municipal Boundaries
-  Main Roads
-  Main Rivers
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone

SOURCE:
NFEP, 2011
NGI, 2014

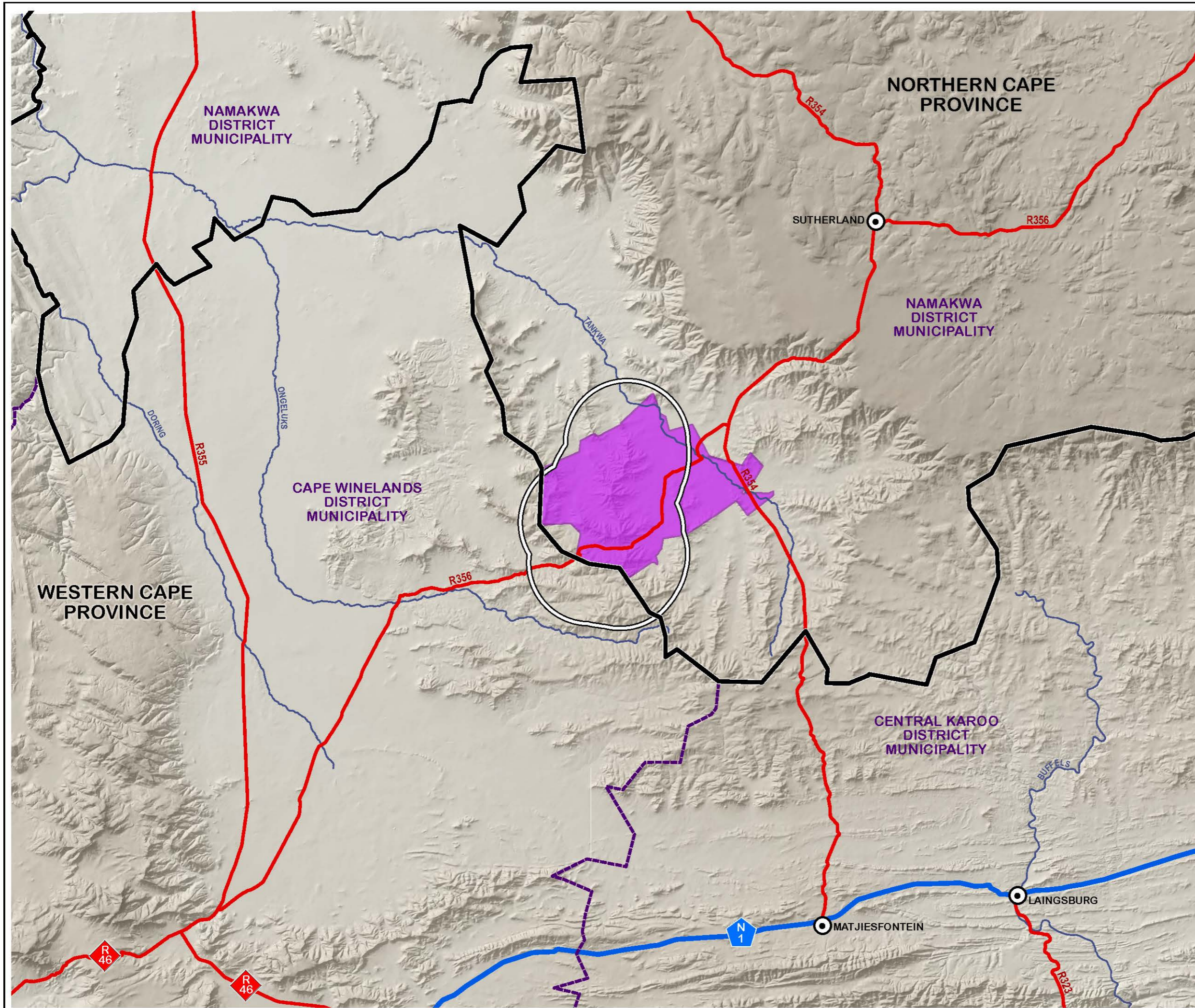


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Map Ref No 15260/SV02	Revision 0	Date





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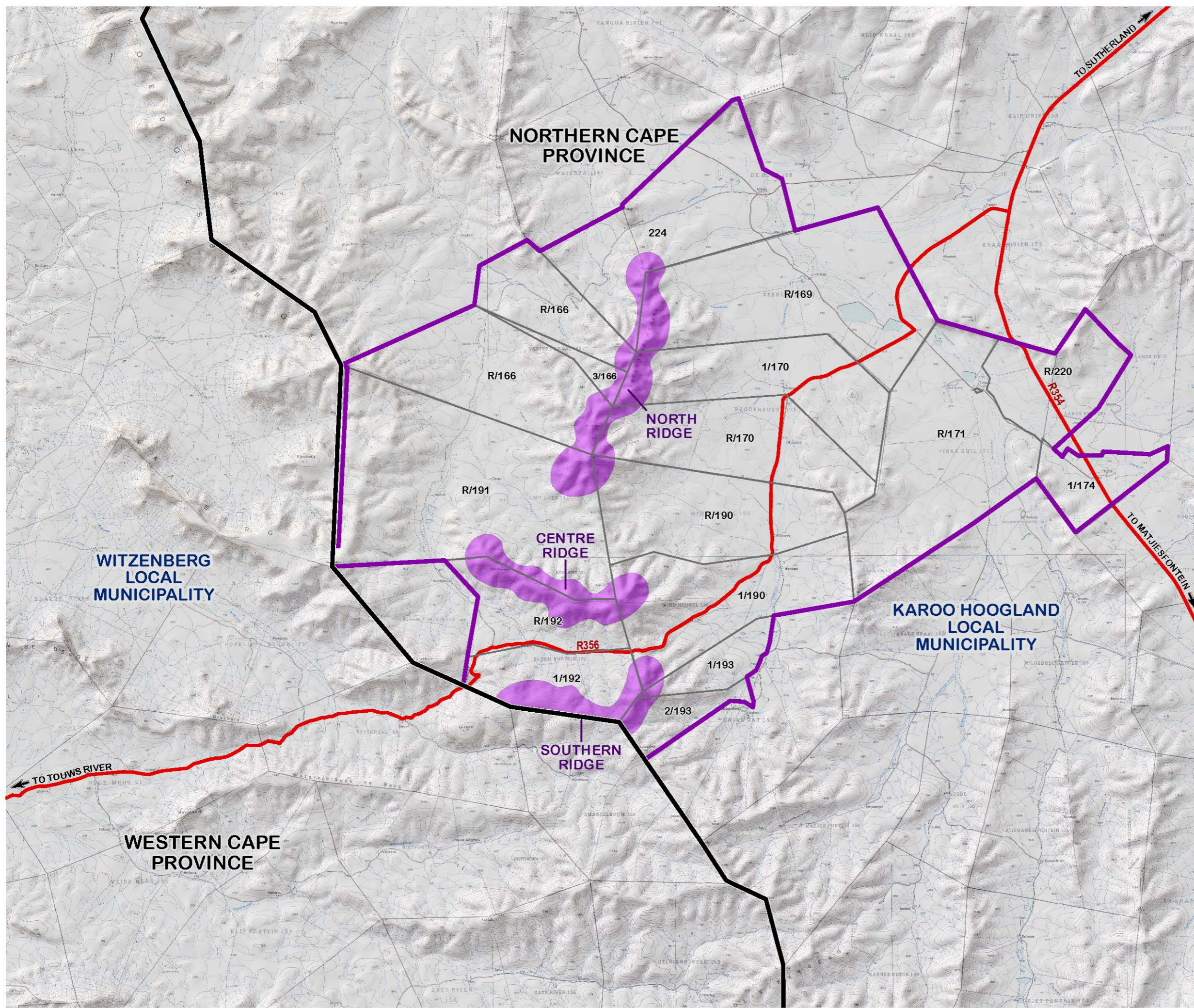
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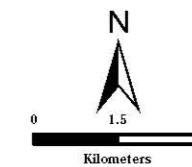
**PROPOSED
CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
SITE LOCALITY**

Legend

-  Provincial Boundaries
-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  Turbine Development Sectors



SOURCE:
DEMARICATION BOARD, 2011
NGI, 2014



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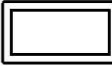

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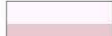

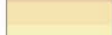

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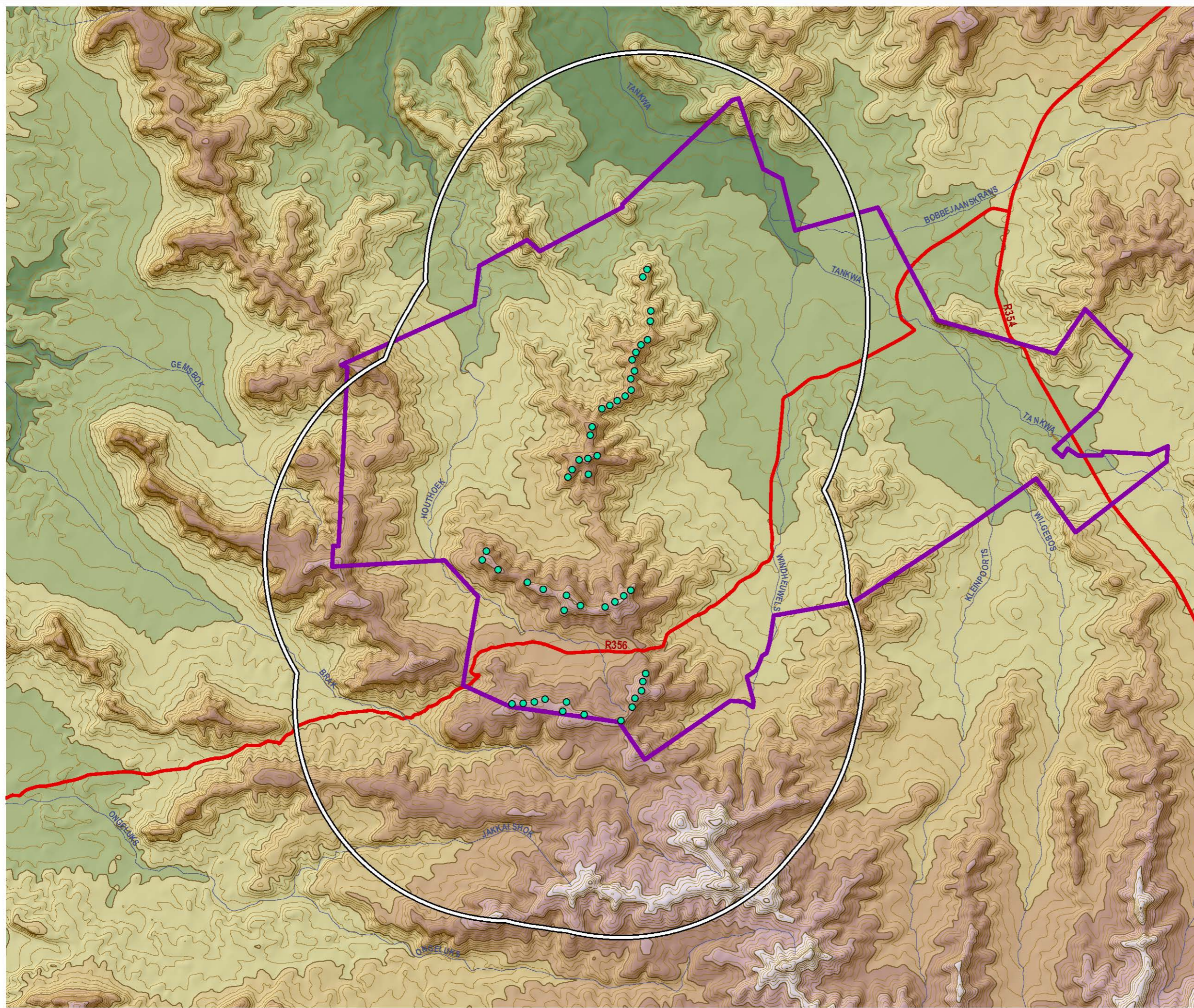
**PROPOSED
CONSTRUCTION OF THE
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FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
TOPOGRAPHY**

Legend

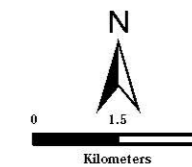
-  Main Roads
-  Rivers
-  Contours (100m Interval)
-  Contours (20m Interval)
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone
-  Proposed Turbine Positions

Elevation (msl)

-  High: >1,200m
- 
- 
-  Low: <=600m



SOURCE:
NGI, 2014
NFEPA, 2011



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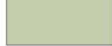






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FACILITY
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
SLOPE CLASSIFICATION**

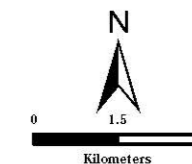
Legend

-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone
-  Proposed Turbine Positions

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:
NGI, 2014
NFEPA, 2011

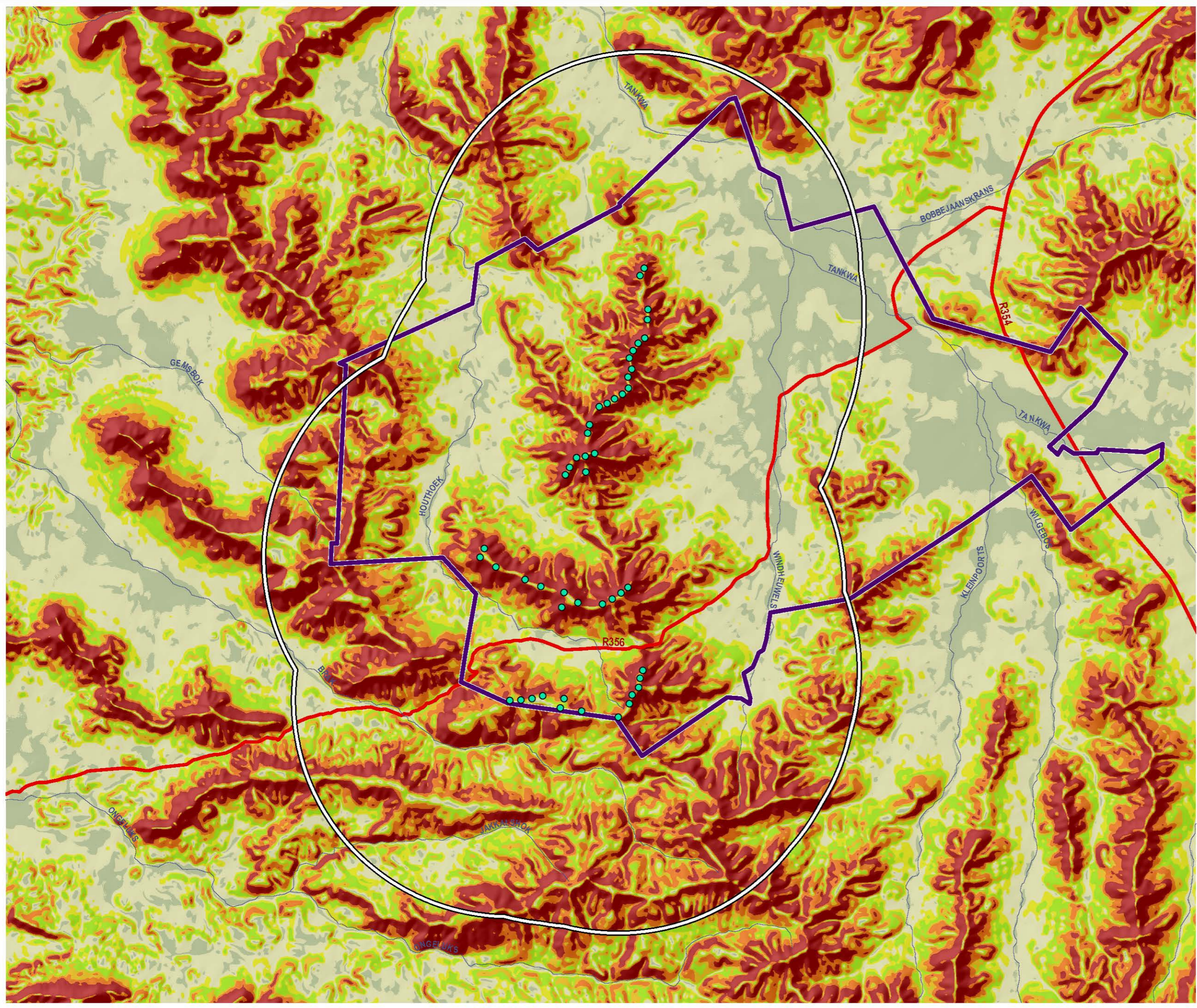


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**PROPOSED
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RONDEKOP WIND ENERGY
FACILITY**
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
VEGETATION CLASSIFICATION

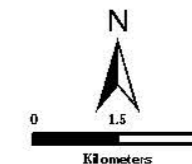
Legend

-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone
-  Proposed Turbine Positions

Vegetation Classification

-  Central Mountain Shale Renosterveld
-  Koedoesberge - Moordenaars Karoo
-  Tanqua Escarpment Shrubland
-  Tanqua Karoo
-  Tanqua Wash Riviere

SOURCE:
NFEPA, 2011
SANBI, 2012

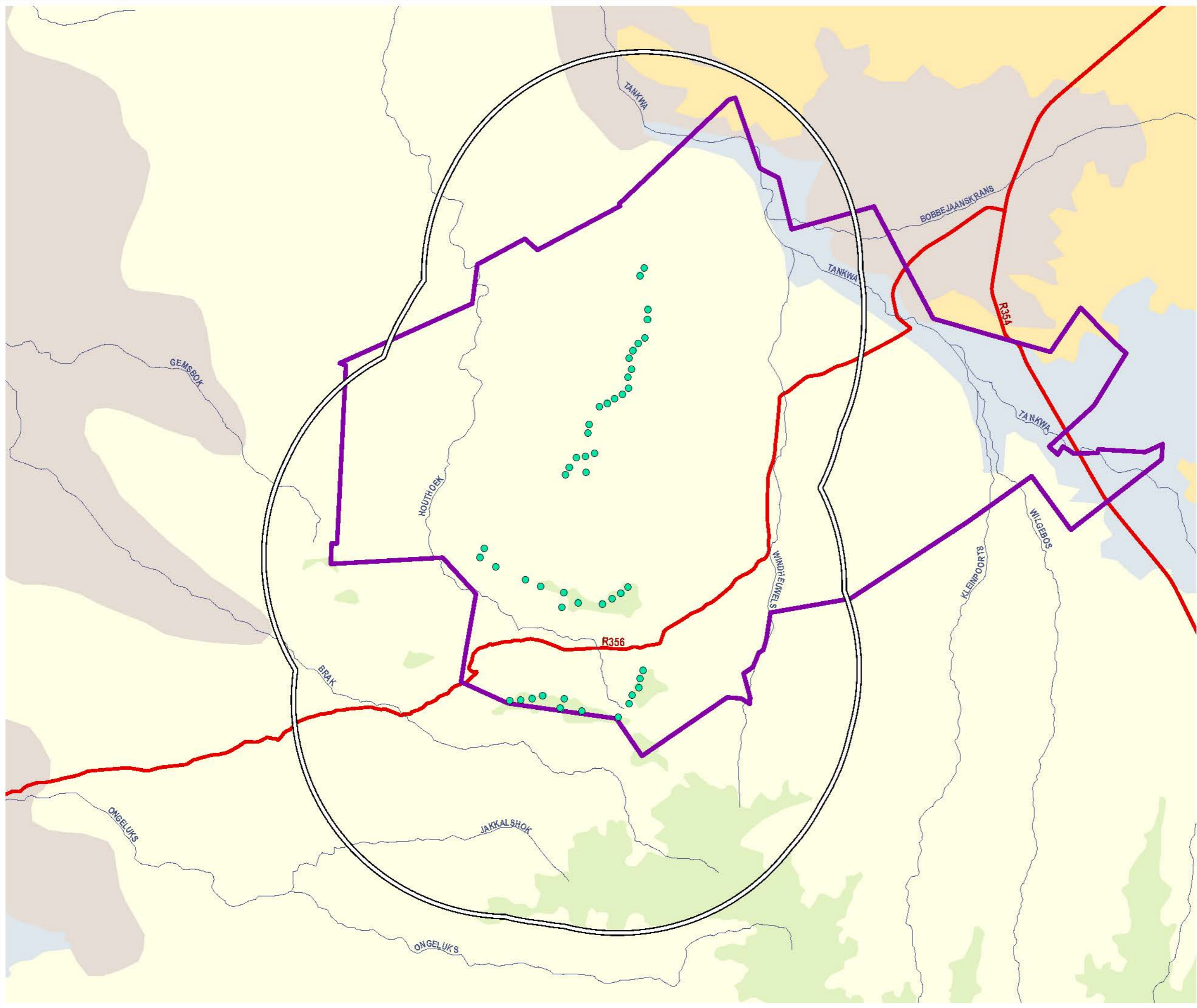


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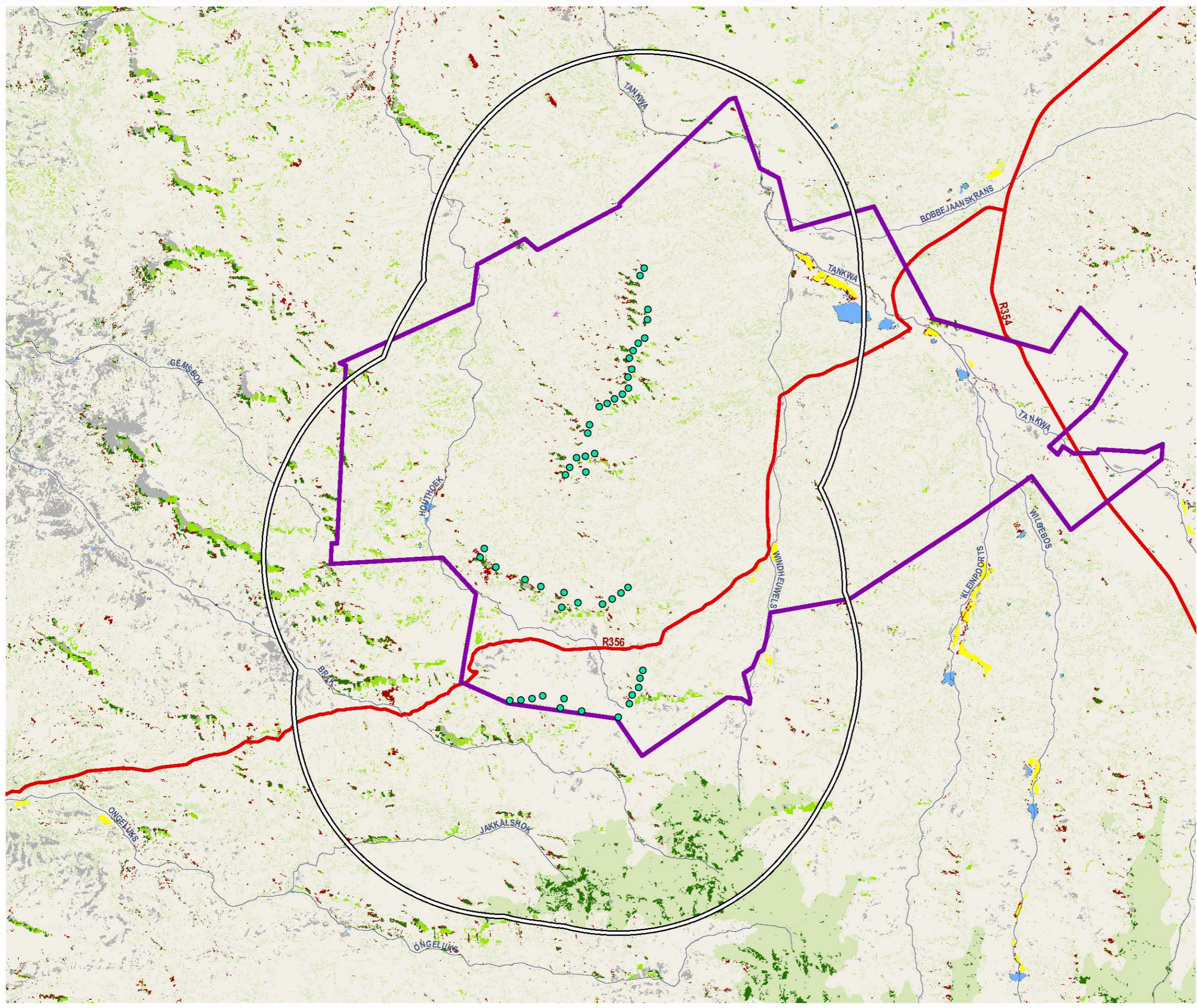
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Map Ref No 15260/SV06	Revision 0	Date

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FACILITY**
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
BROAD LAND COVER
CLASSIFICATION



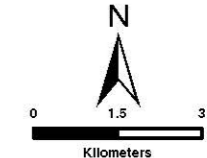
Legend

-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone
-  Proposed Turbine Positions

Land Cover Classification

-  Bare (None Vegetated)
-  Cultivation
-  Grassland
-  Low Shrubland
-  Mines / Quarries
-  Shrubland Fynbos
-  Thicket / Dense Bush
-  Wetlands / Waterbodies
-  Woodland / Open Bush

SOURCE:
NFEP, 2011
2013-2014 SA NATIONAL LAND COVER
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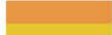
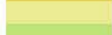

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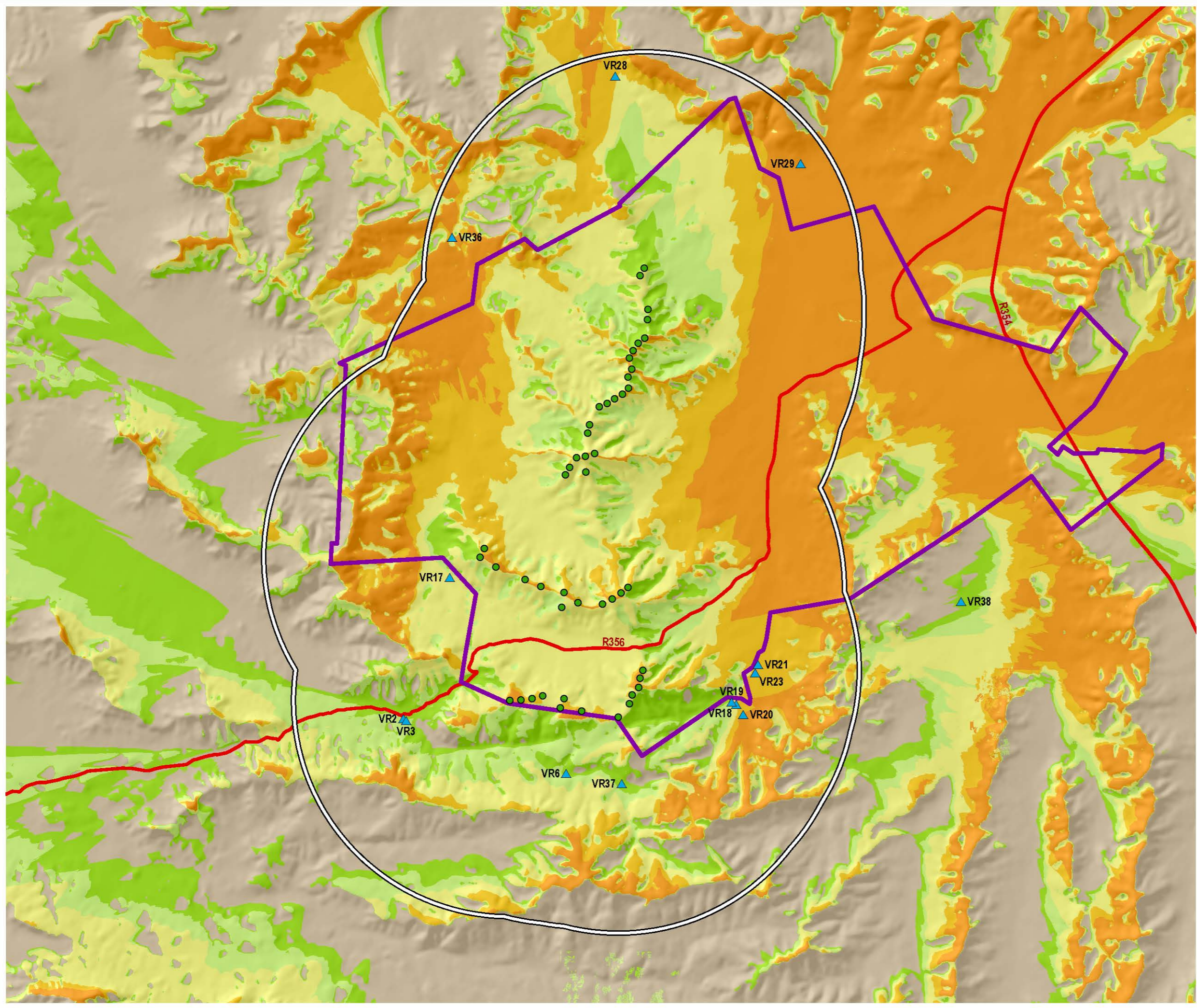
**PROPOSED
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FACILITY**
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
PRELIMINARY VISIBILITY
ANALYSIS

Legend

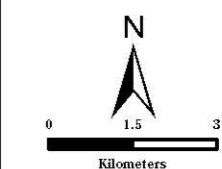
-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone
-  Proposed Turbine Positions
-  Potentially Sensitive Receptor Locations

Potential Visibility of Proposed Wind Turbines

-  Most Visible
 -  Least Visible
 -  Not Visible
- } INSIDE VIEWSHED



SOURCE:
NGI, 2014
NFEPA, 2011



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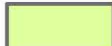


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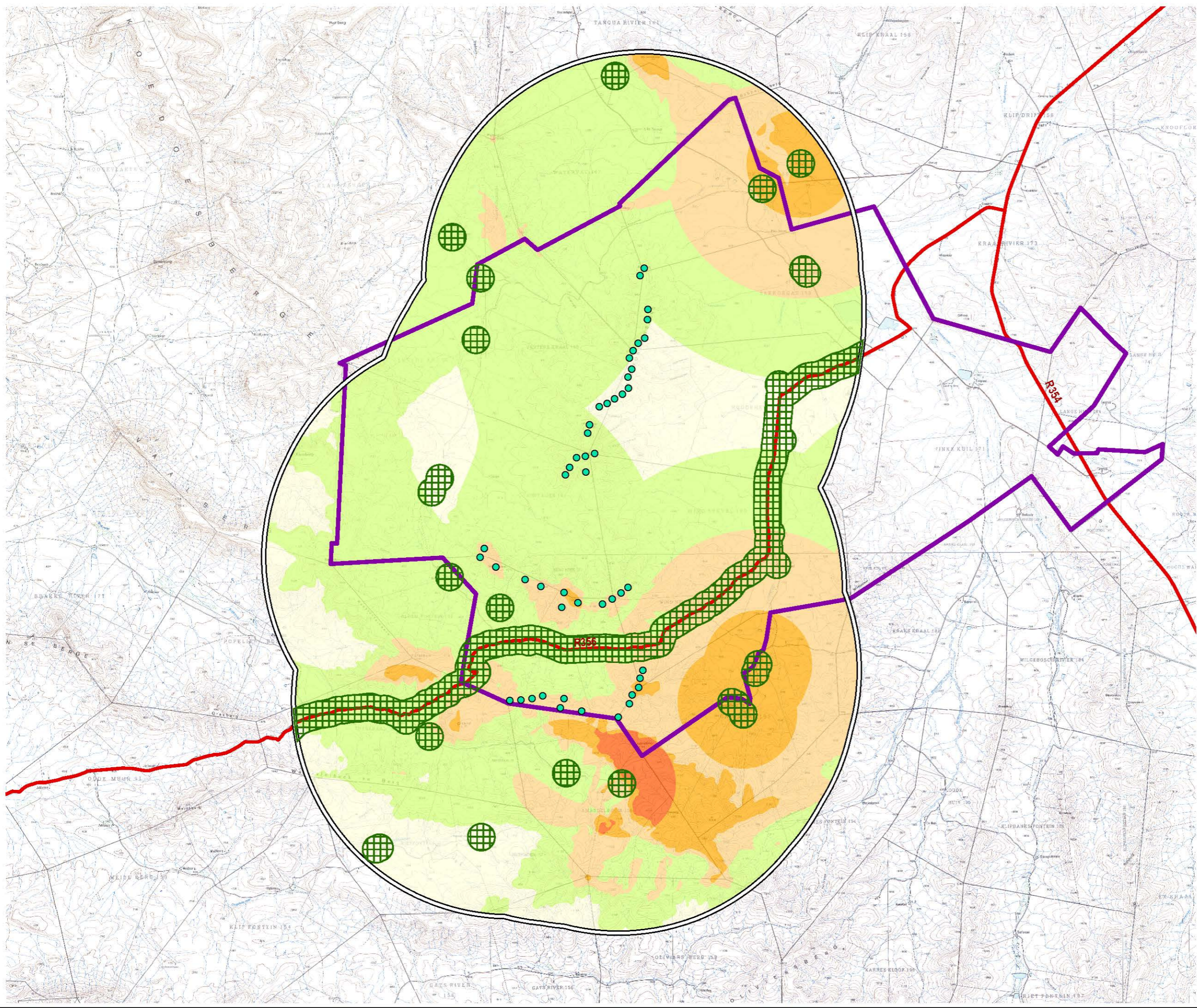
**PROPOSED
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NEAR SUTHERLAND,
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VISUAL ASSESSMENT:
VISUAL SENSITIVITY**

Legend

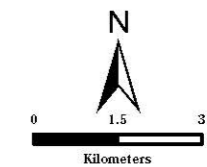
-  Main Roads
-  Rivers
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone
-  Proposed Turbine Positions

Visual Sensitivity

-  High
-  Medium
-  Medium-Low
-  Low
-  Not Visible
-  500m Exclusion Zone



SOURCE:
NGI, 2014



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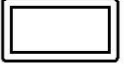





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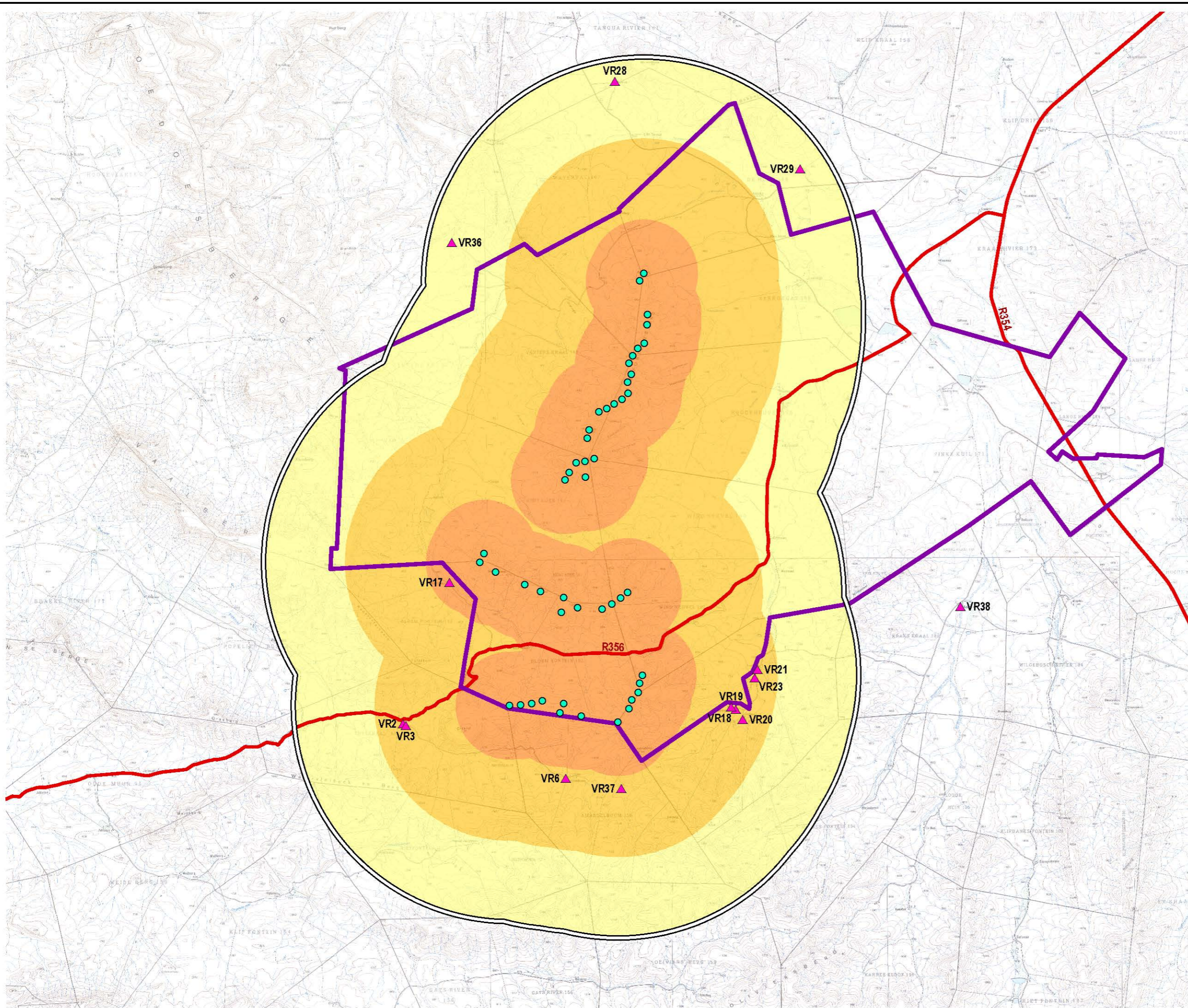
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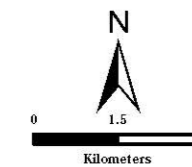
**PROPOSED
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FACILITY**
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
**VISUAL ASSESSMENT:
POTENTIALLY SENSITIVE
RECEPTOR LOCATIONS**

Legend

-  Main Roads
 -  Rondekop WEF Application Site
 -  8km Visual Assessment Zone
 -  Proposed Turbine Positions
 -  Potentially Sensitive Receptor Locations
- Zones of Potential Visual Impact
(Distance from Turbine Locations)**
-  High Impact (<=2kms)
 -  Moderate Impact (2.1 - 5kms)
 -  Low Impact (>5kms)



SOURCE:
DEMARICATION BOARD, 2011
NGI, 2014



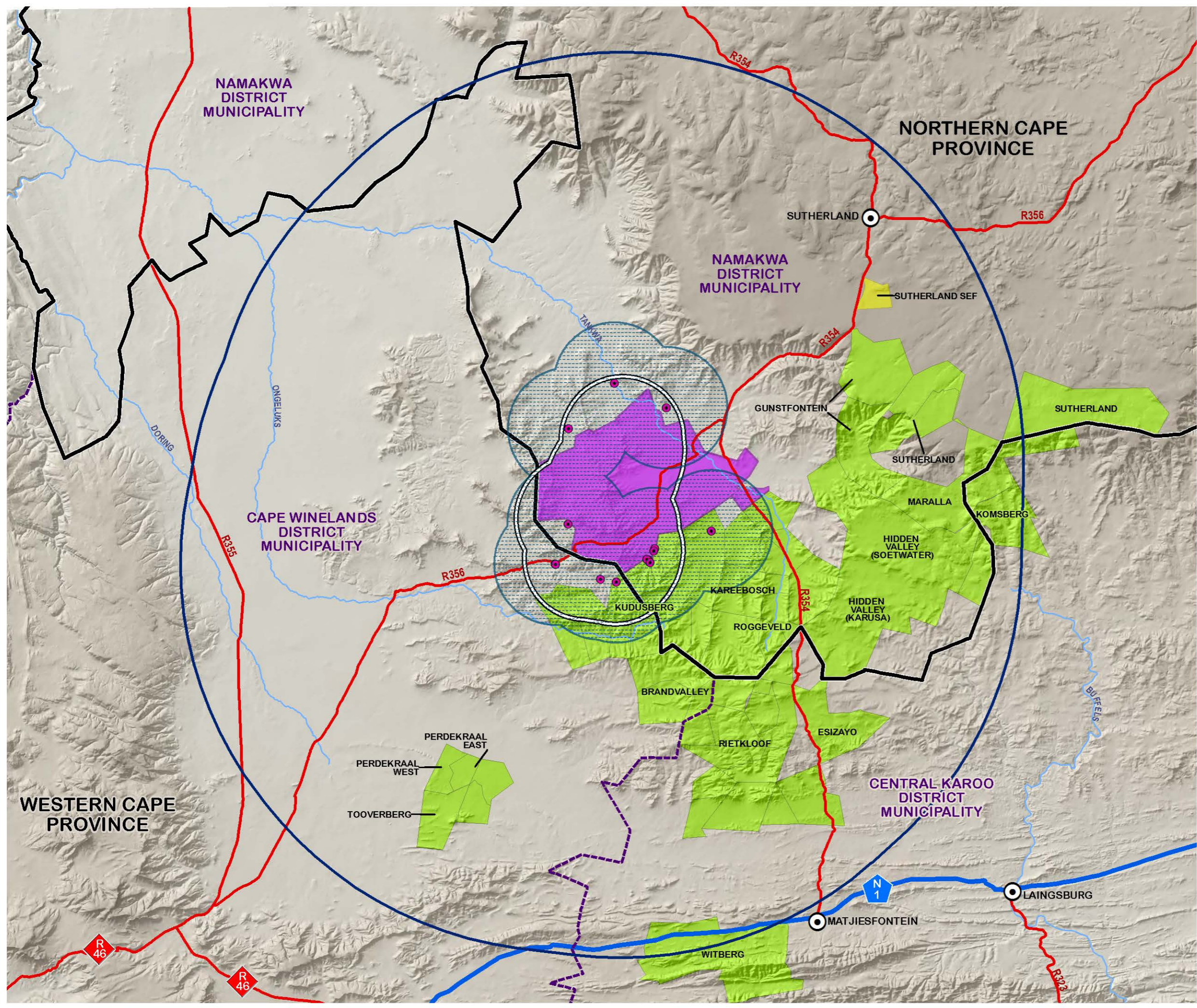
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**PROPOSED
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FACILITY**
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
OTHER PROPOSED RENEWABLE
ENERGY DEVELOPMENTS WITHIN
50KM RADIUS



- Legend**
- Main Towns
 - Provincial Boundaries
 - District Municipal Boundaries
 - Main Roads
 - Main Rivers
 - Rondekop WEF Application Site
 - 50km Radius
 - 8km Visual Assessment Zone
 - Potentially Sensitive Receptor Locations
 - 8km Viewing Distance from Receptors

- Renewable Energy Application Sites**
- Onshore Wind
 - Solar PV

SOURCE:
DEA, 2018
G7 RENEWABLE ENERGIES (PTY) LTD
NFPA, 2011
NGI, 2014

0 5 10
Kilometers

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Map Ref No 15260/SV11	Revision 0	Date

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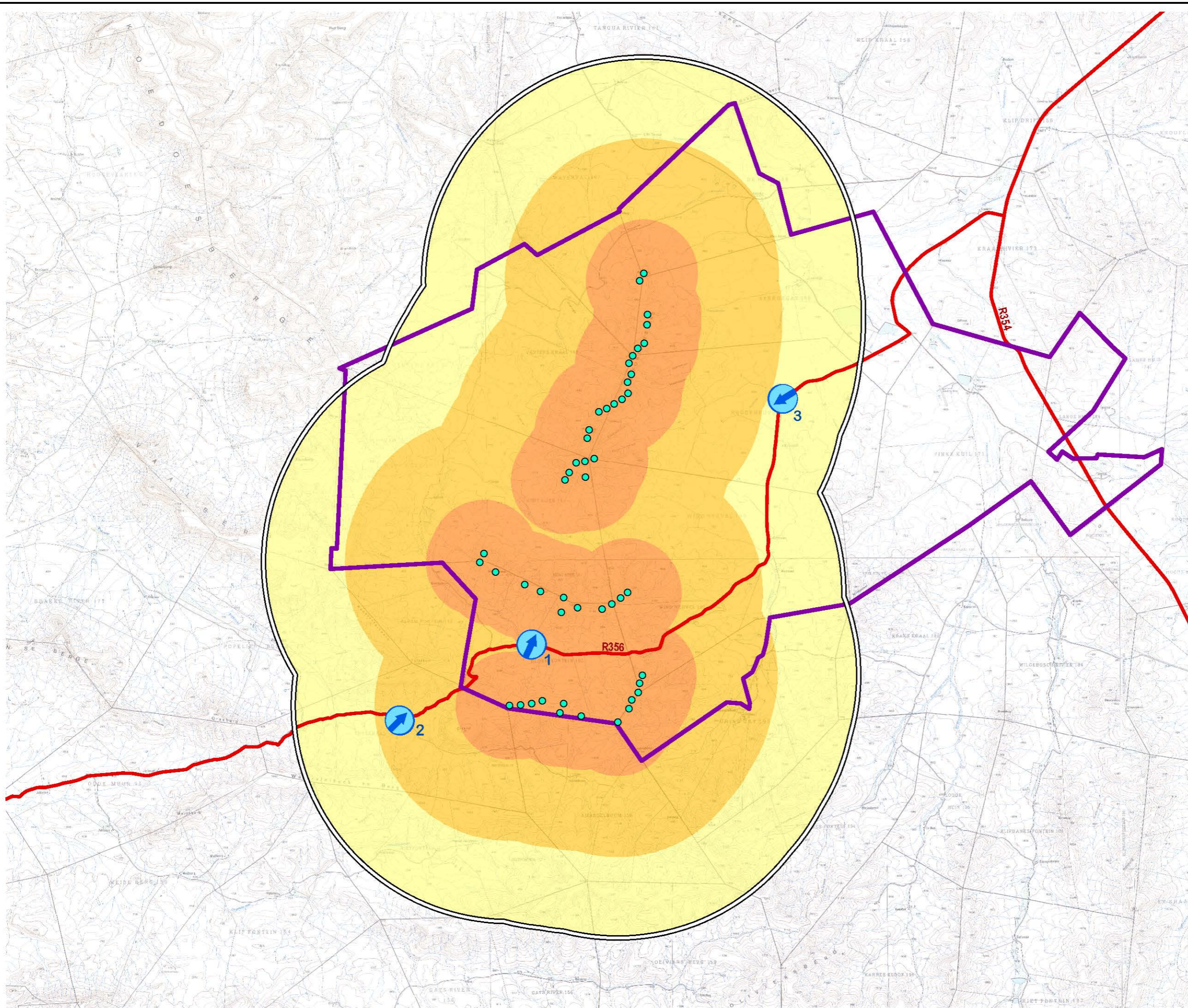
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CONSTRUCTION OF THE
RONDEKOP WIND ENERGY
FACILITY**
NEAR SUTHERLAND,
NORTHERN CAPE PROVINCE
VISUAL ASSESSMENT:
PHOTOMONTAGE VIEW POINTS

Legend

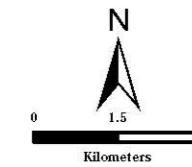
-  Main Roads
-  Rondekop WEF Application Site
-  8km Visual Assessment Zone
-  Proposed Turbine Positions
-  View Points

**Zones of Potential Visual Impact
(Distance from Turbine Locations)**

-  High Impact (<=2kms)
-  Moderate Impact (2.1 - 5kms)
-  Low Impact (>5kms)



SOURCE:
DEMARICATION BOARD, 2011
NGI, 2014



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