



**PROPOSED CONSTRUCTION
OF THE KLIPKRAAL
WIND ENERGY FACILITY
PHASE 4**





WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

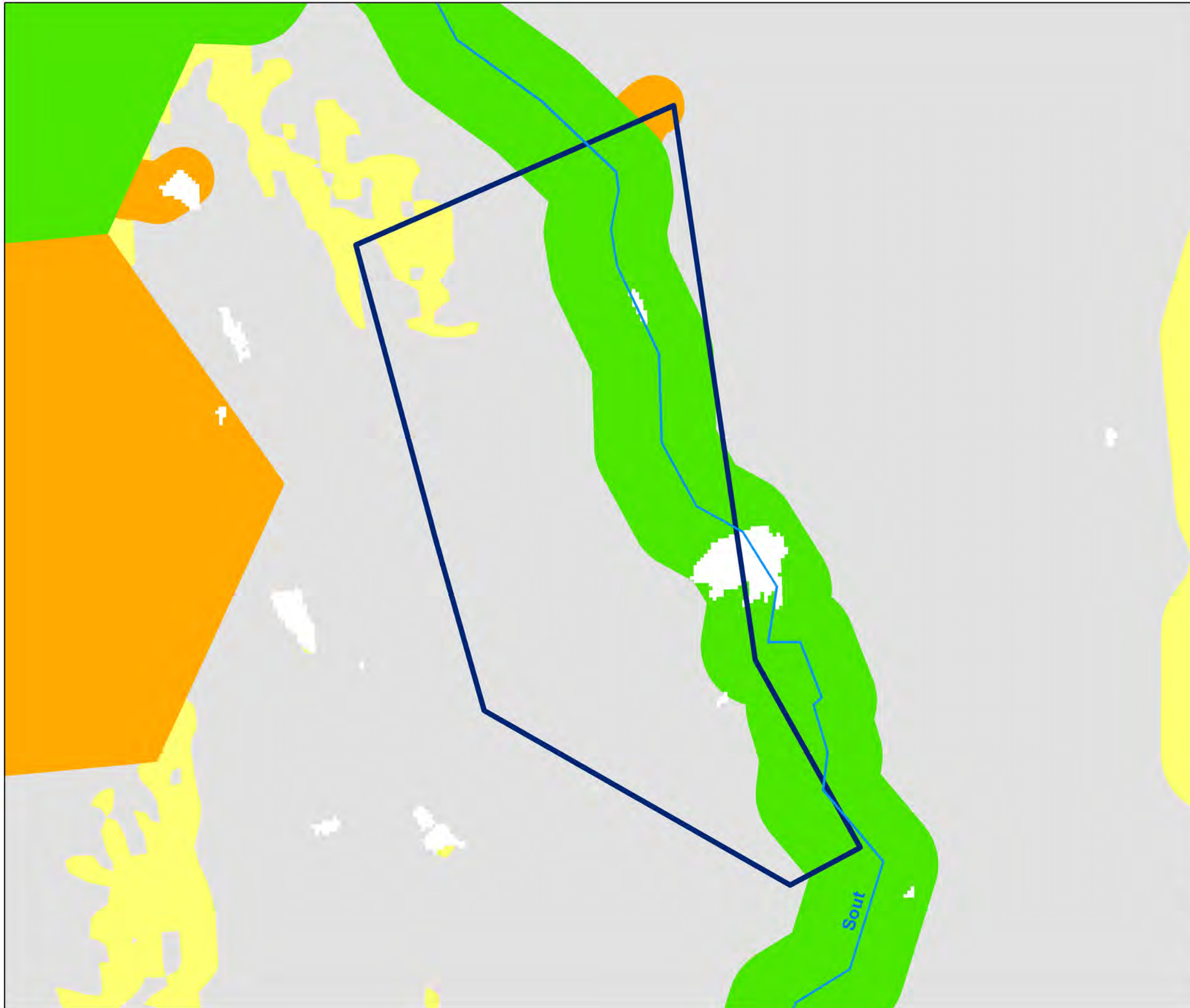
CRITICAL BIODIVERSITY AREAS

Legend

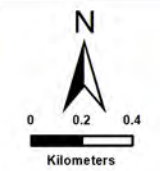
-  Rivers
-  Klipkraal Phase 4 WEF Site

CBA Classification

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



Source:
NFEPA 2011
NORTHERN CAPE BIODIVERSITY SPATIAL PLAN 2017



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Map Ref No 16891	Revision 0	Date _____

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


















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KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE

BROAD LANDCOVER CLASSIFICATION

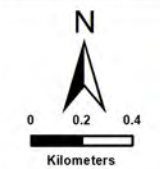
Legend

-  Rivers
-  Klipkraal Phase 4 WEF Site

Land Cover Classification

-  Artificial Dams (including canals)
-  Bare Riverbed Material
-  Commercial Annual Crops Rain-fed / Dryland
-  Contiguous & Dense Plantation Forest
-  Cultivated Commercial Permanent Orchards
-  Dense Forest & Woodland
-  Dry Pans
-  Eroded Lands
-  Herbaceous Wetlands (previously mapped)
-  Low Shrubland (Nama Karoo)
-  Low Shrubland (other)
-  Mines: Extraction Pits, Quarries
-  Natural Grassland
-  Natural Pans (flooded @ observation times)
-  Open & Sparse Plantation Forest
-  Open Woodland
-  Other Bare
-  Roads & Rails (major linear)
-  Sparsely Wooded Grassland
-  Village Scattered (Bare & Low Veg/ Grass combo)

Source:
NFEPA 2011
2018 SA NATIONAL LAND COVER
(© GEOTERRAIMAGE - 2018)



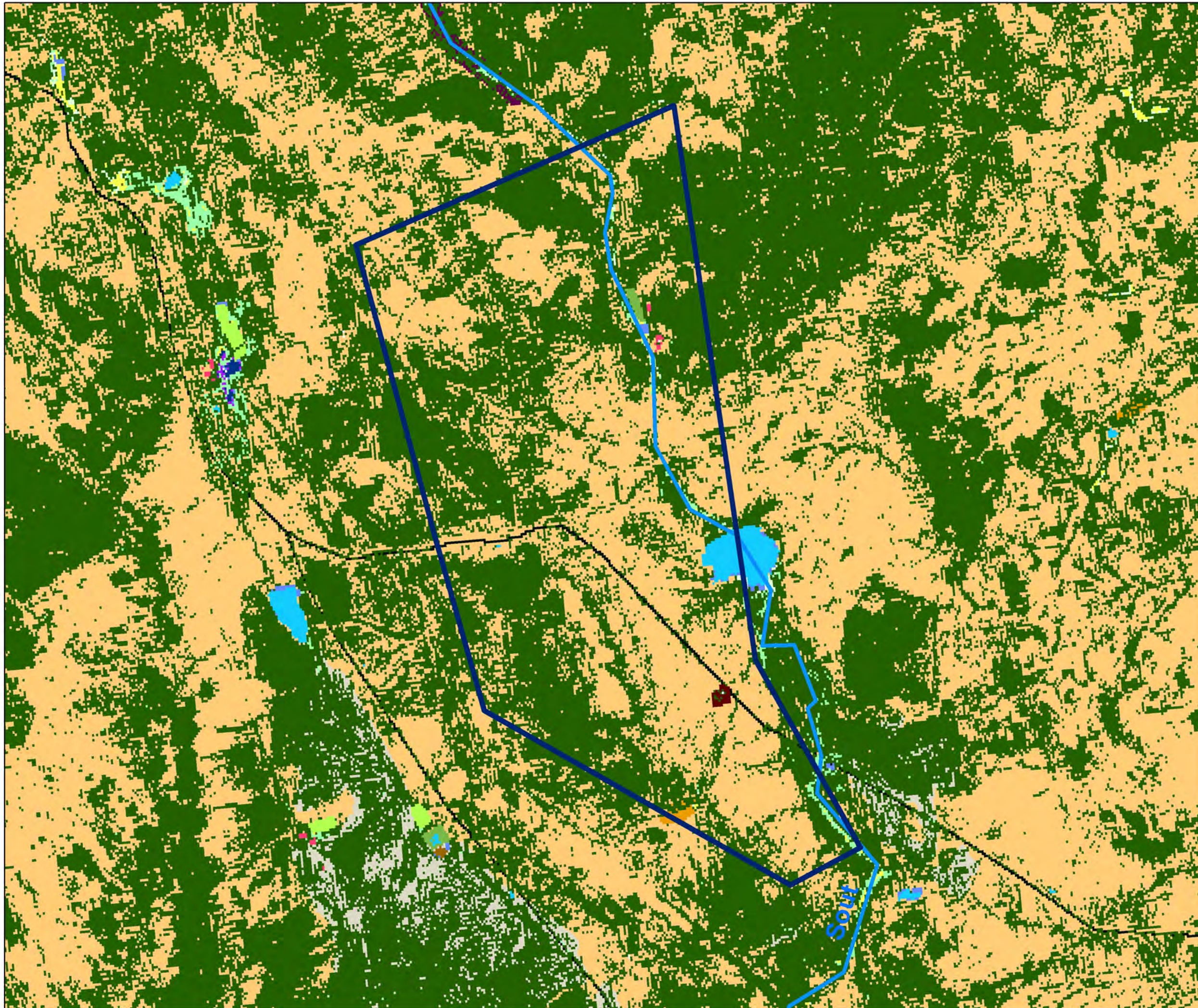
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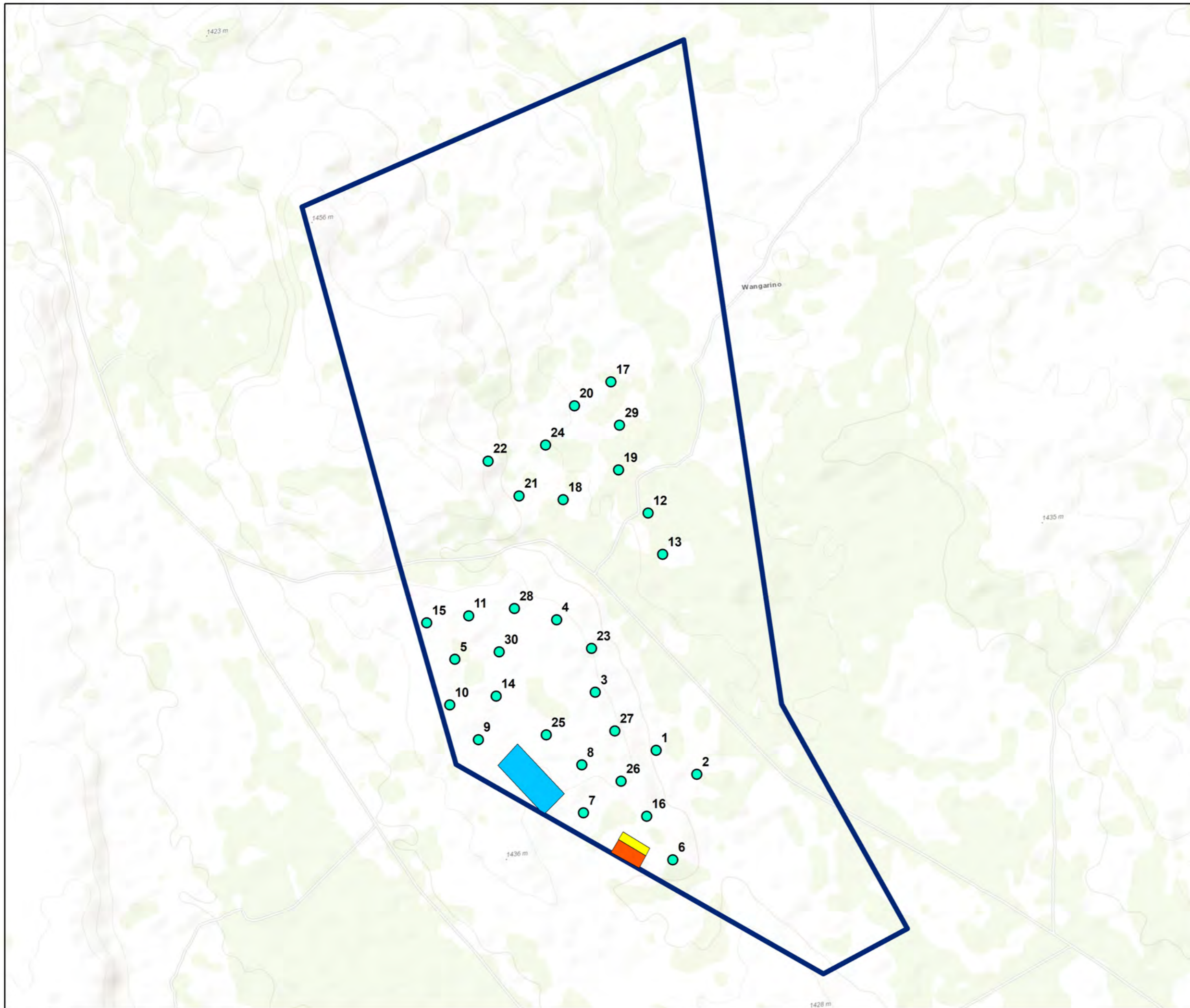
PRELIMINARY LAYOUT

Legend

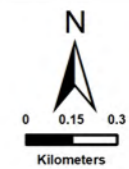
 Klipraal Phase 4 WEF Site

Proposed WEF Components

-  Turbine Locations
-  Switching Yard
-  Offices and Buildings
-  Battery Storage Area



Source:
NGI, 2011



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
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Map Ref No 16891	Revision 0	Date _____

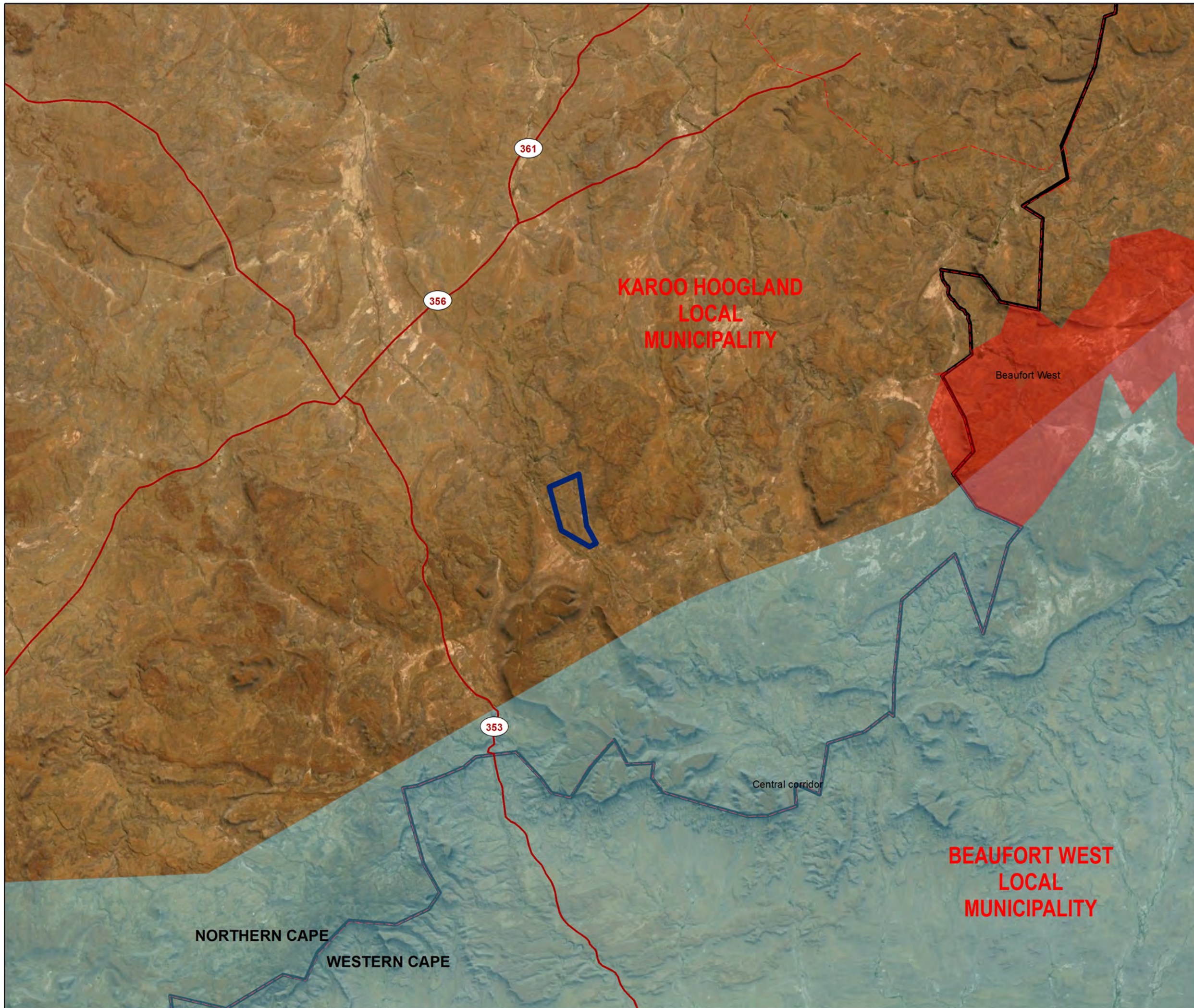
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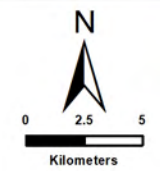
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WIND ENERGY FACILITY
PHASE 4**
WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
**RENEWABLE ENERGY
DEVELOPMENT ZONES**

Legend

-  Main Arterial Routes
-  Local Municipal Boundaries
-  Provincial Boundary
-  Phase 2 REDZs
-  Power Corridors
-  Klipkraal Phase 4 WEF Site



Source:
NGI, 2014
MUNICIPAL DERMACATION BOARD, 2016

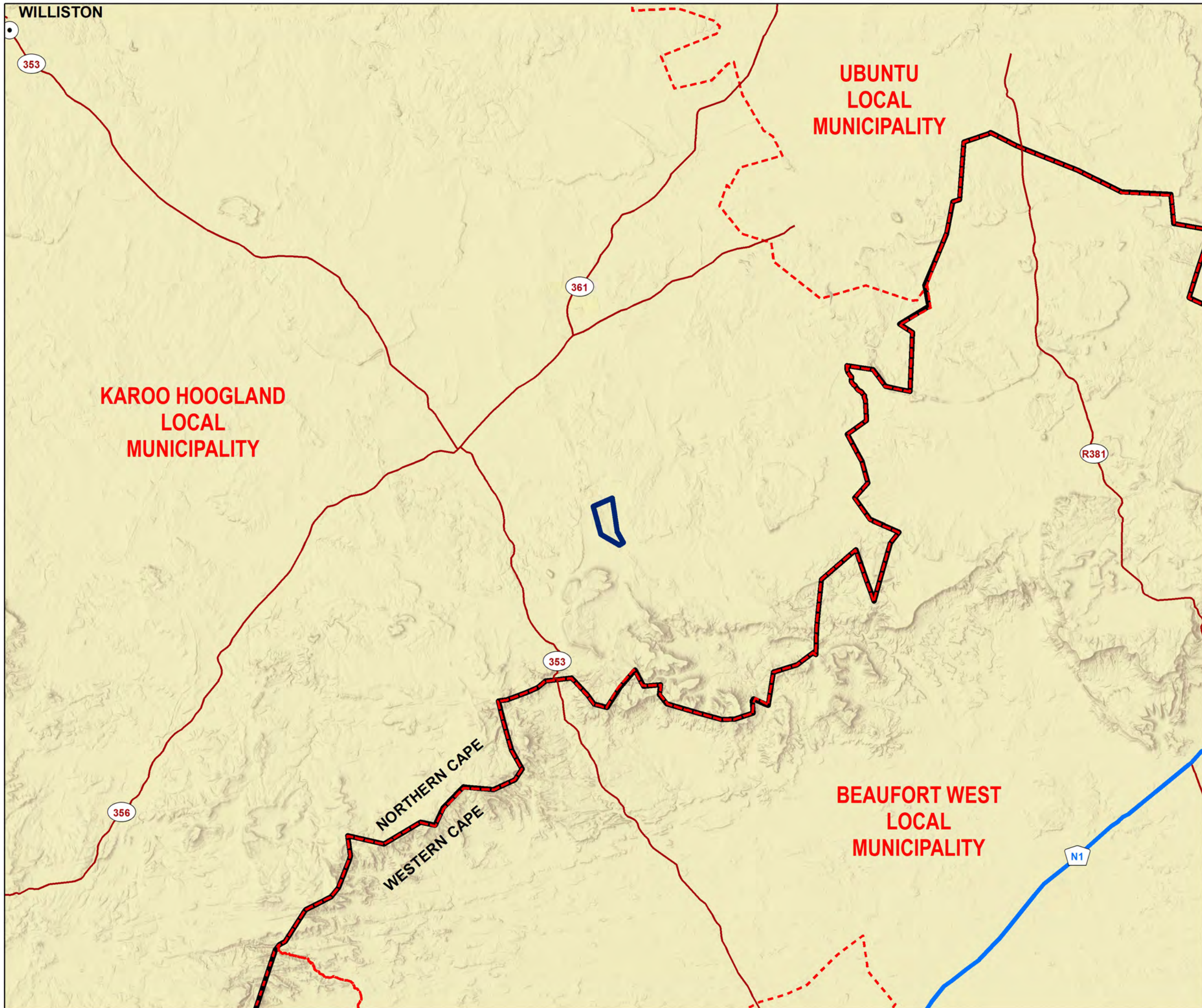


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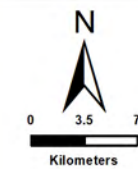
PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 4
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
REGIONAL CONTEXT

Legend

- Main Towns
- National Route
- Main Arterial Routes
- Local Municipal Boundaries
- Provincial Boundary
- Klipkraal Phase 4 WEF Site



Source:
 NGI, 2014
 MUNICIPAL DERMACATION BOARD, 2016

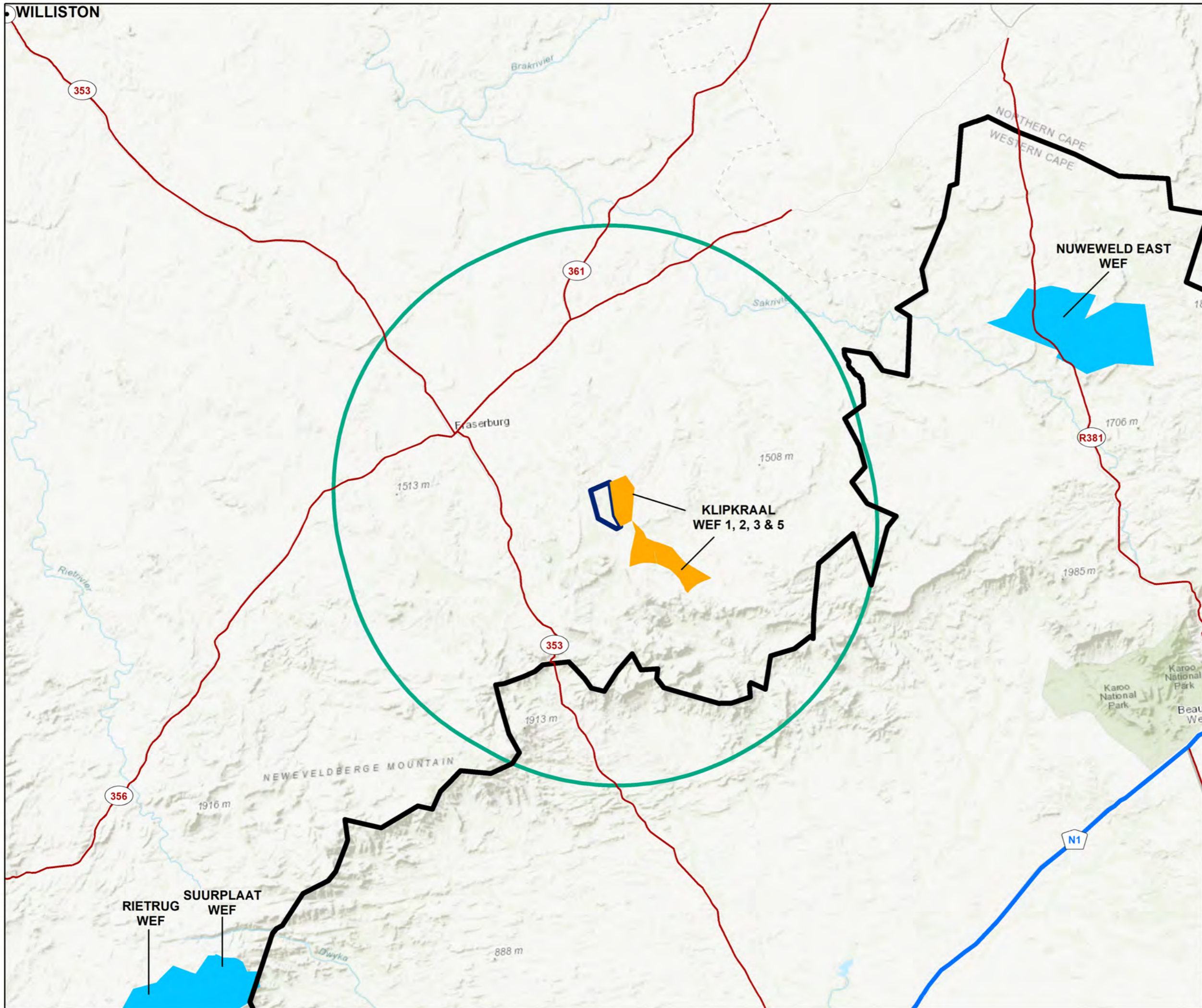


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PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 4
 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
RENEWABLE ENERGY PROJECTS (NEW AND PROPOSED)

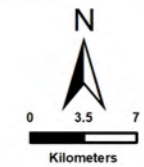
Legend

- Main Towns
- Main Arterial Routes
- National Route
- Provincial Boundary
- 35km Radius
- Klipkraal Phase 4 WEF Site

Renewable Energy Application Sites

- Wind
- Other Klipkraal WEF Phases

Source: NGI, 2011



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PROPOSED CONSTRUCTION OF THE KLIPKRAAL WIND ENERGY FACILITY PHASE 4
WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE
SENSITIVITY LAYOUT






Legend

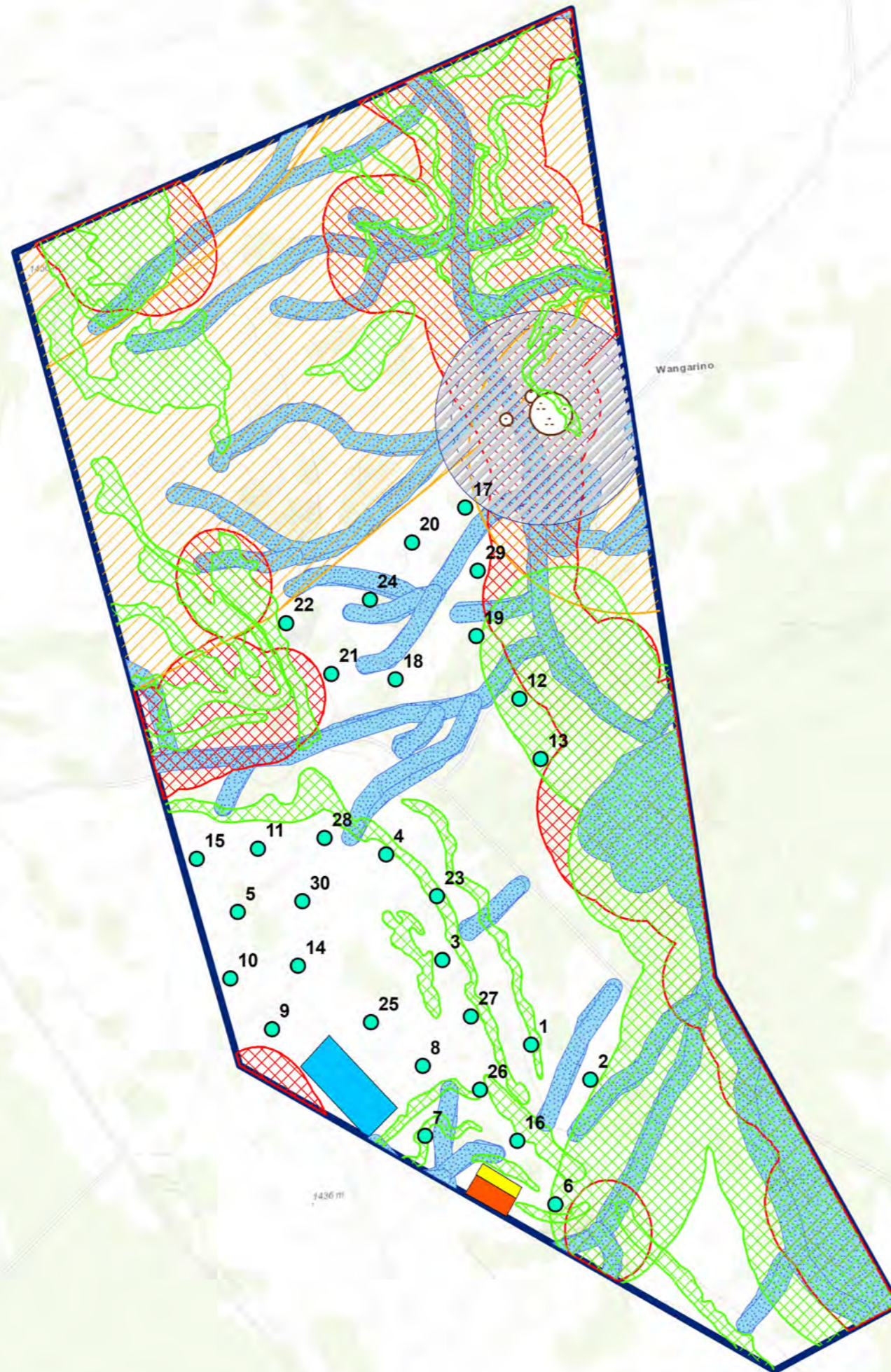
 Klipraal Phase 4 WEF Site

Proposed WEF Components

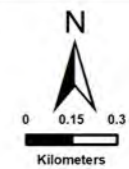
-  Turbine Locations
-  Switching Yard
-  Offices and Buildings
-  Battery Storage Area

Environmental Sensitivities (No-Go)

-  Aquatic
-  Avifauna
-  Bat
-  Heritage
-  Noise
-  Terrestrial



Source:
NGI, 2011



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WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
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SITE LOCALITY

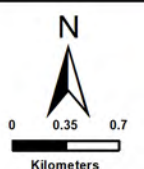
Legend

-  Local Access
-  Farm Portions
-  Klipkraal Phase 4 WEF Site

SOUTH AFRICA



Source:
NGI, 2014



SIVEST

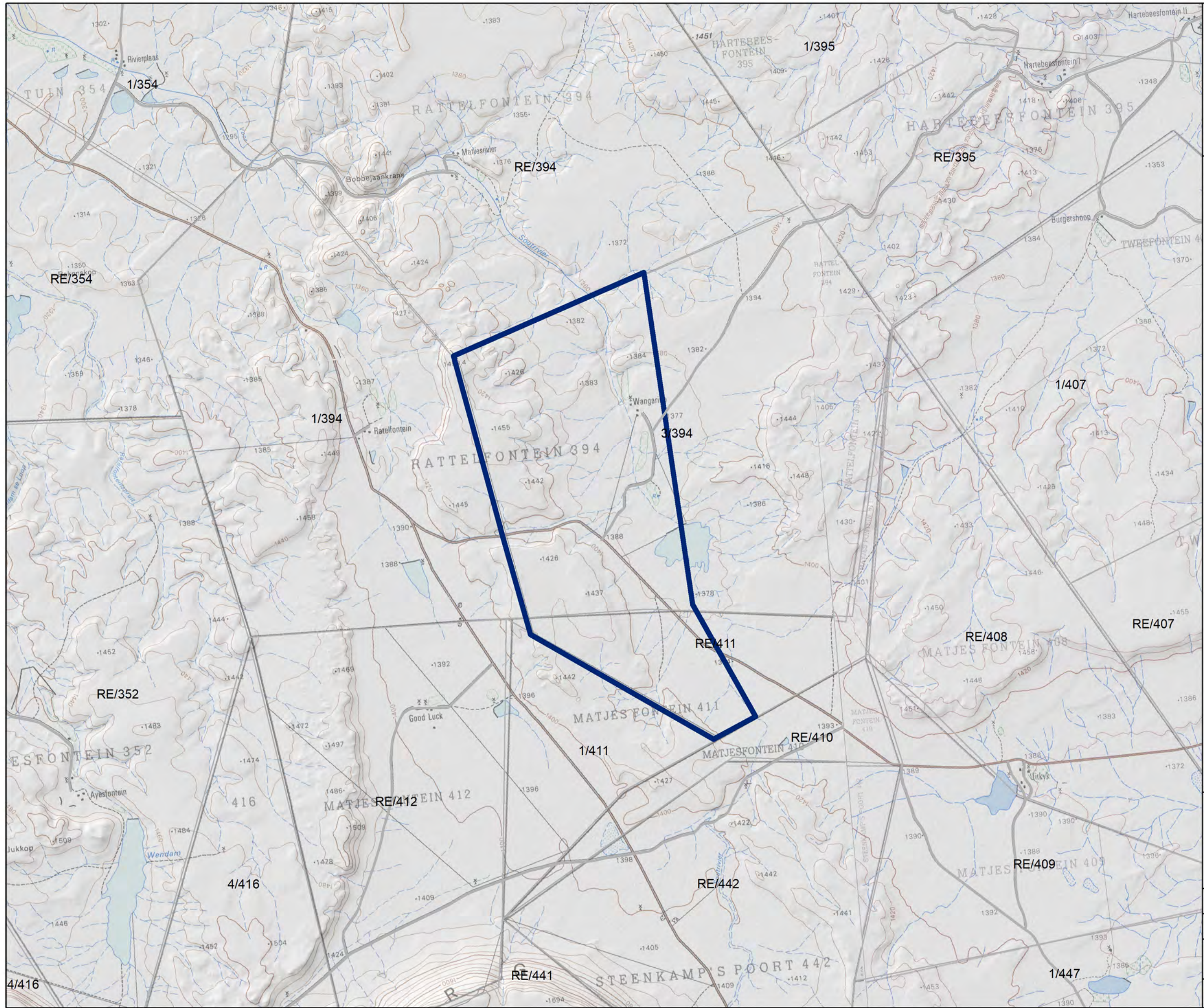
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VEGETATION CLASSIFICATION

Legend

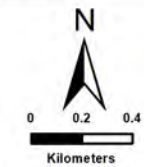
-  Rivers
-  Klipkraal Phase 4 WEF Site

Vegetation Classification

-  Eastern Upper Karoo
-  Upper Karoo Hardeveld
-  Western Upper Karoo



Source:
NFEPA 2011
SANBI 2018



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WIND ENERGY FACILITY
PHASE 4**
WITHIN THE
KAROO HOOGLAND LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
SITE LOCALITY





Legend

-  Secondary Roads
-  Rivers
-  NFEPA Wetlands
-  Klipkraal Phase 4 WEF Site (32° 1'28.81"S; 21°43'0.19"E)

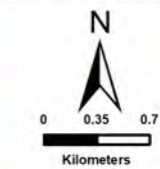
Vegetation Classification

-  Eastern Upper Karoo
-  Roggeveld Karoo
-  Roggeveld Shale Renosterveld
-  Upper Karoo Hardeveld
-  Western Upper Karoo

CBA Classification

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

Source:
NFEPA 2011
SANBI, 2018
NORTHERN CAPE BIODIVERSITY SPATIAL PLAN 2017



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