

**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CONSOLIDATED MAP**

Legend

- Poffader WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
- Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)
- Pofadder WEF 3 Application Site (29°20'2.14"S; 19°46'45.05"E)

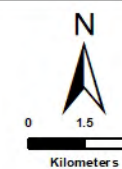
Proposed WEF Components

- Batching Plants
- BESS Facilities
- Operational & Maintenance Buildings
- Site Camps
- Facility Substations
- Turbine Laydown Areas
- Warehouses

Grid Connection Alternatives

- Preferred Alternative
- WEF 1 132kv OH Line
- WEF 2 132kv OH Line
- WEF 3 132kv OH Line

Source:
ESKOM, 2012
NGI, 2014

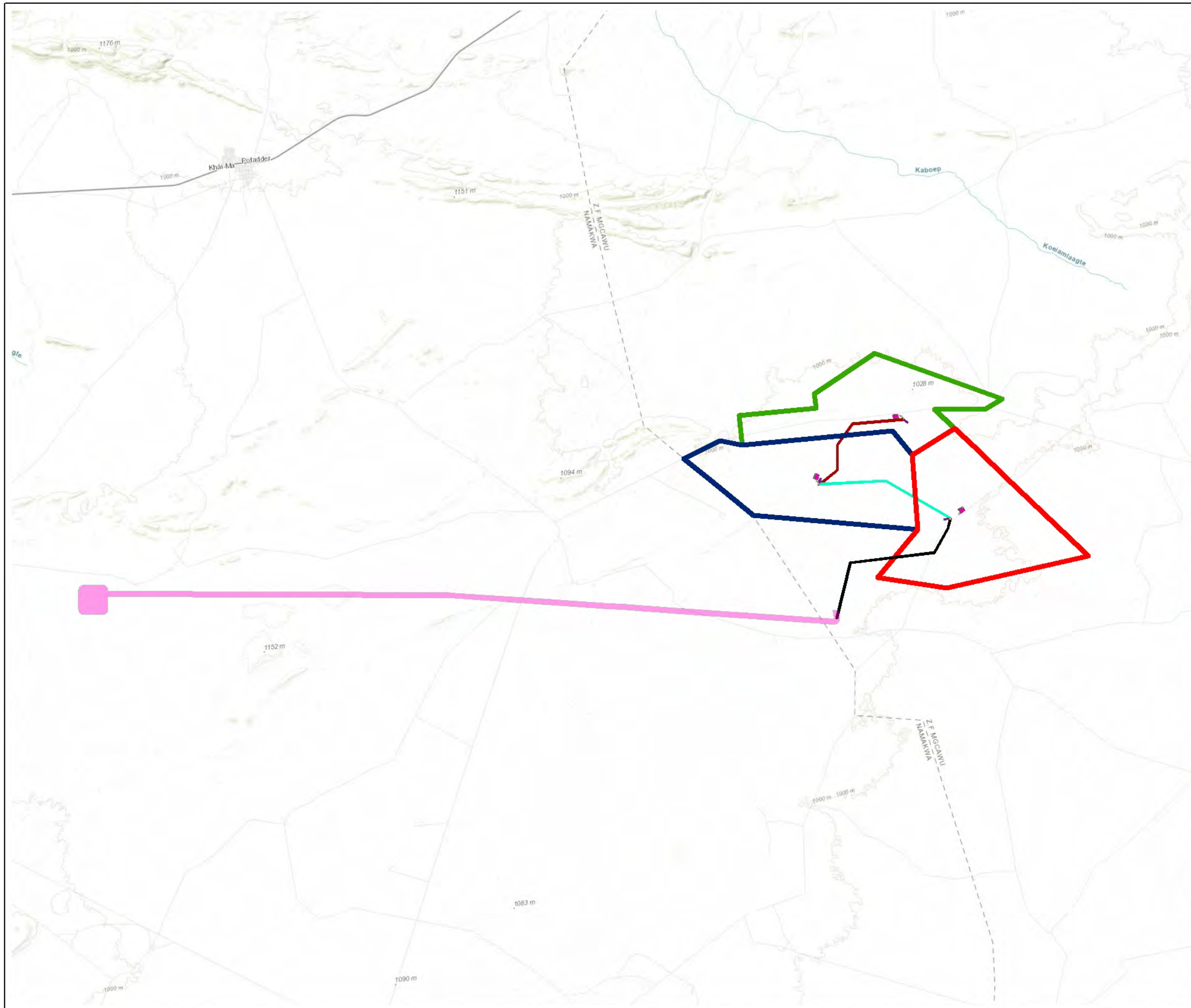


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Map Ref No 16876	Revision 0	Date

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**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CONSOLIDATED MAP**

Legend

- Phase 1 REDZs
- Power Corridors
- Pofadder WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
- Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)
- Pofadder WEF 3 Application Site (29°20'2.14"S; 19°46'45.05"E)

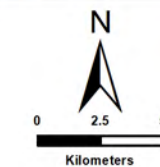
Proposed WEF Components

- Batching Plants
- BESS Facilities
- Operational & Maintenance Buildings
- Site Camps
- Facility Substations
- Turbine Laydown Areas
- Warehouses

Grid Connection Alternatives

- Preferred Alternative
- WEF 1 132kv OH Line
- WEF 2 132kv OH Line
- WEF 3 132kv OH Line

Source:
ESKOM, 2012
NGI, 2014

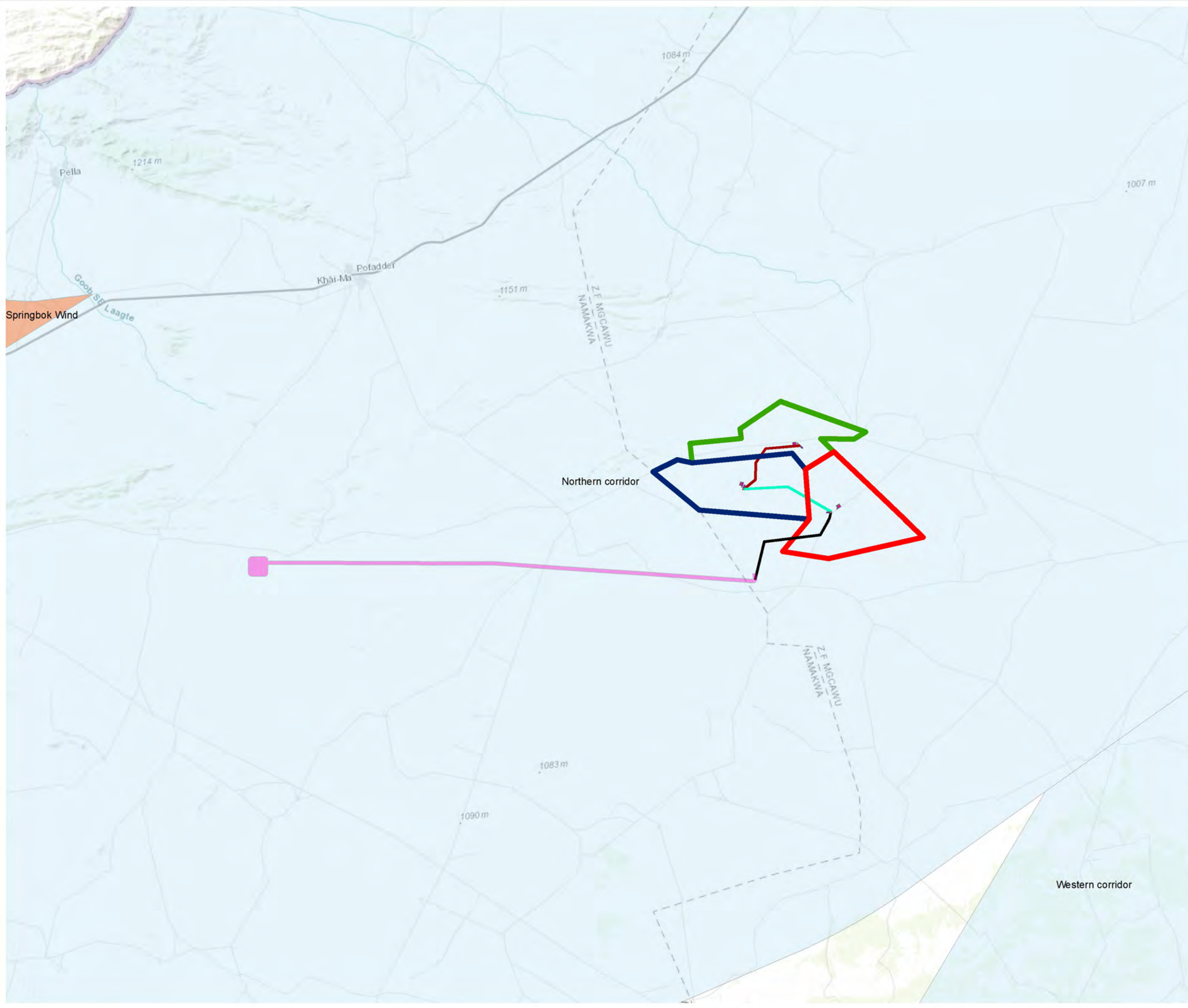


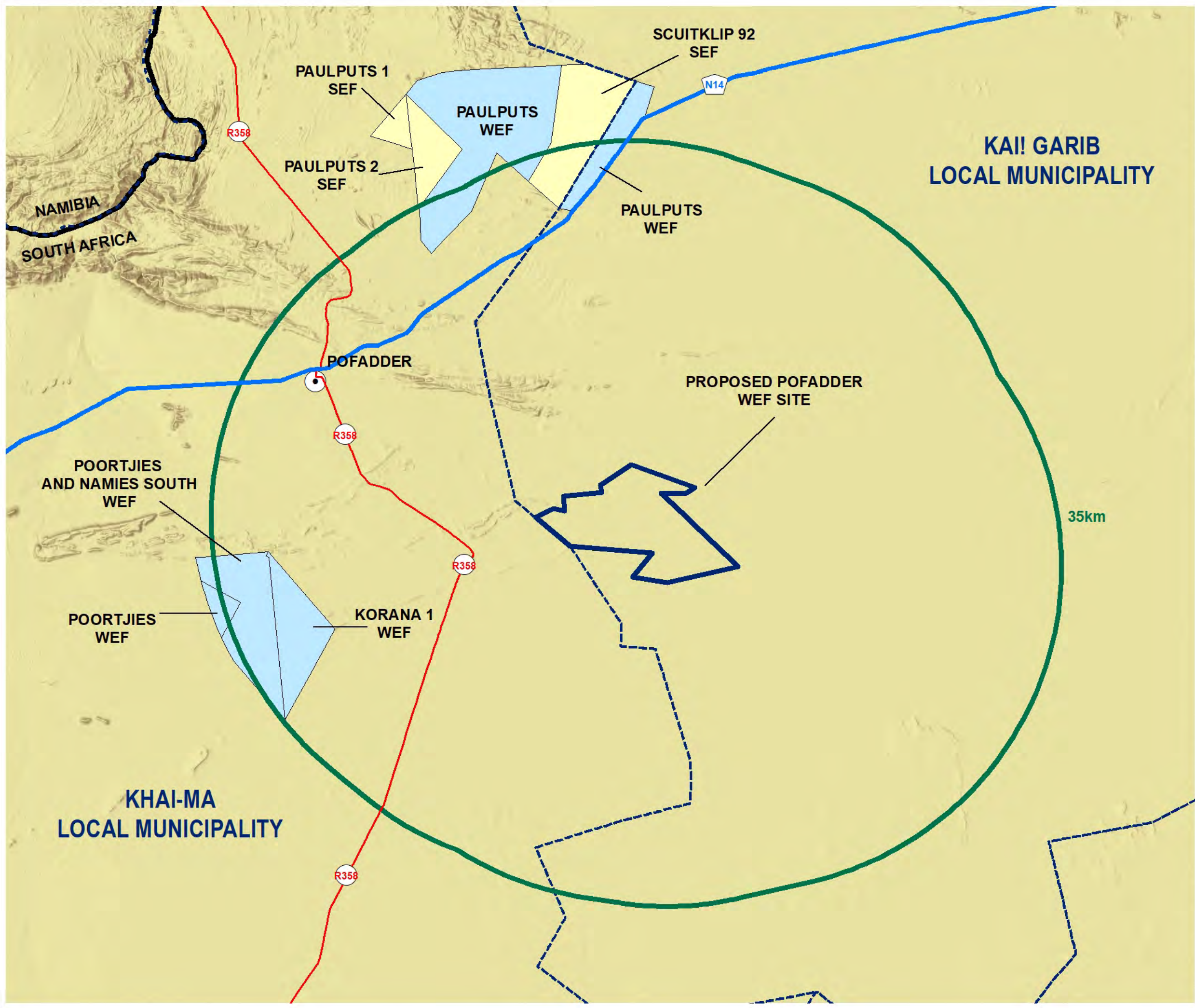
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PROPOSED CONSTRUCTION OF THE POFADDER WIND ENERGY FACILITY WITHIN KAI! GARIB LOCAL MUNICIPALITY, NORTHERN CAPE PROVINCE RENEWABLE ENERGY PROJECTS (EXISTING AND PROPOSED)

Legend

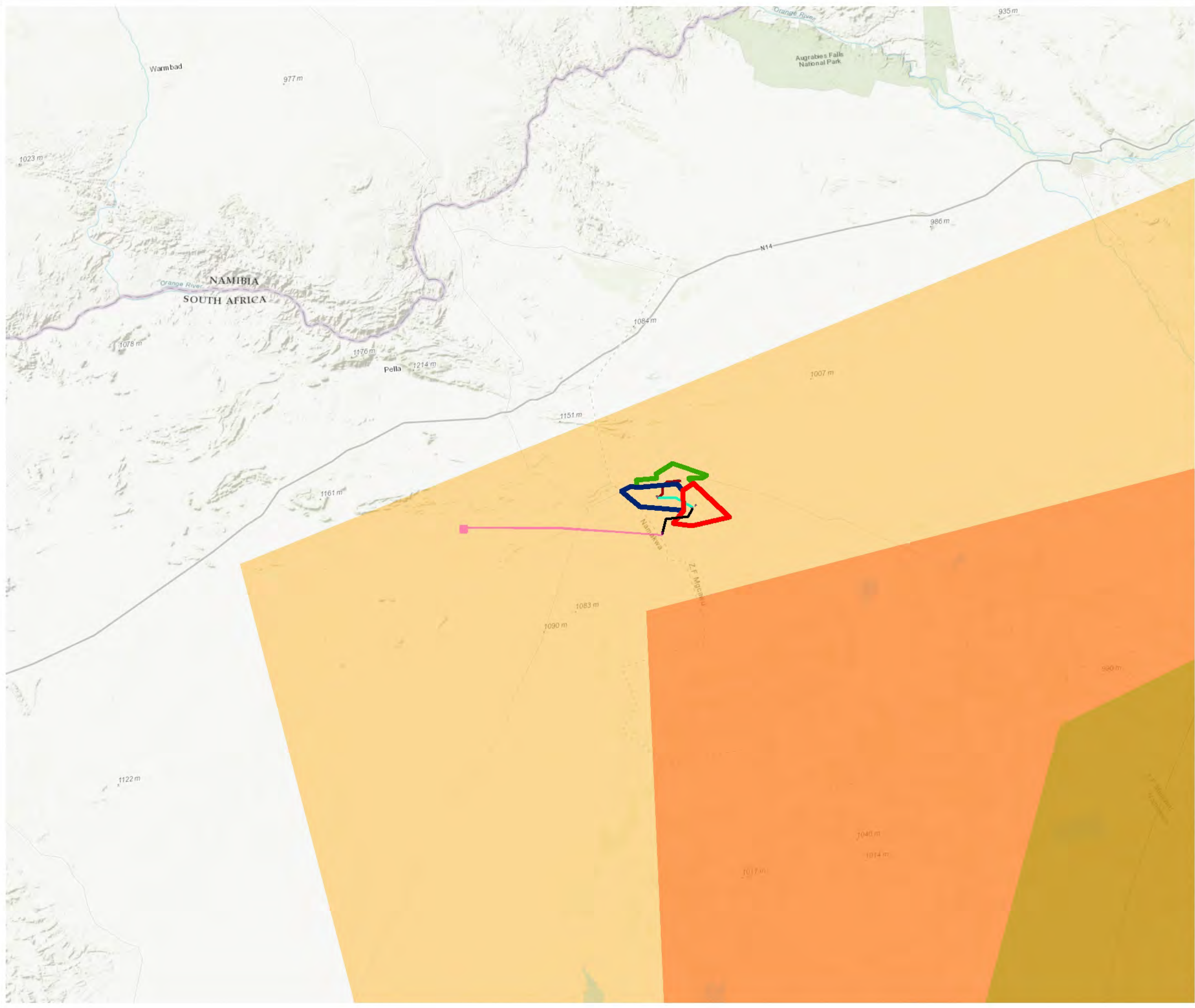
- Main Towns
- National Boundary
- Local Municipal Boundaries
- National Route
- Main Road
- Pofadder WEF Application Site (29° 18' 23.199" S; 19° 44' 35.194" E)
- 35km Radius

Renewable Energy Sites

- Wind
- Solar

Source:
DEFF, 2022
NGI, 2014
MUNICIPAL DEMARCATION BOARD, 2016

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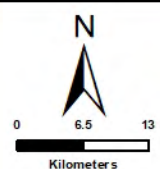


**PROPOSED CONSTRUCTION
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WIND ENERGY FACILITY**
**WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE**
SKA ZONES

Legend

- Poffader WEF 1 Application Site (29°16'27.84"S; 19°44'1.91"E)
 - Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)
 - Pofadder WEF 3 Application Site (29°20'2.14"S; 19°46'45.05"E)
 - KCAAA1
 - KCAAA2
 - KCAAA3
- Proposed WEF Components**
- Batching Plants
 - BESS Facilities
 - Operational & Maintenance Buildings
 - Site Camps
 - Facility Substations
 - Turbine Laydown Areas
 - Warehouses
- Grid Connection Alternatives**
- Preferred Alternative
 - WEF 1 132kv OH Line
 - WEF 2 132kv OH Line
 - WEF 3 132kv OH Line

Source:
ESKOM, 2012
NGI, 2014



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
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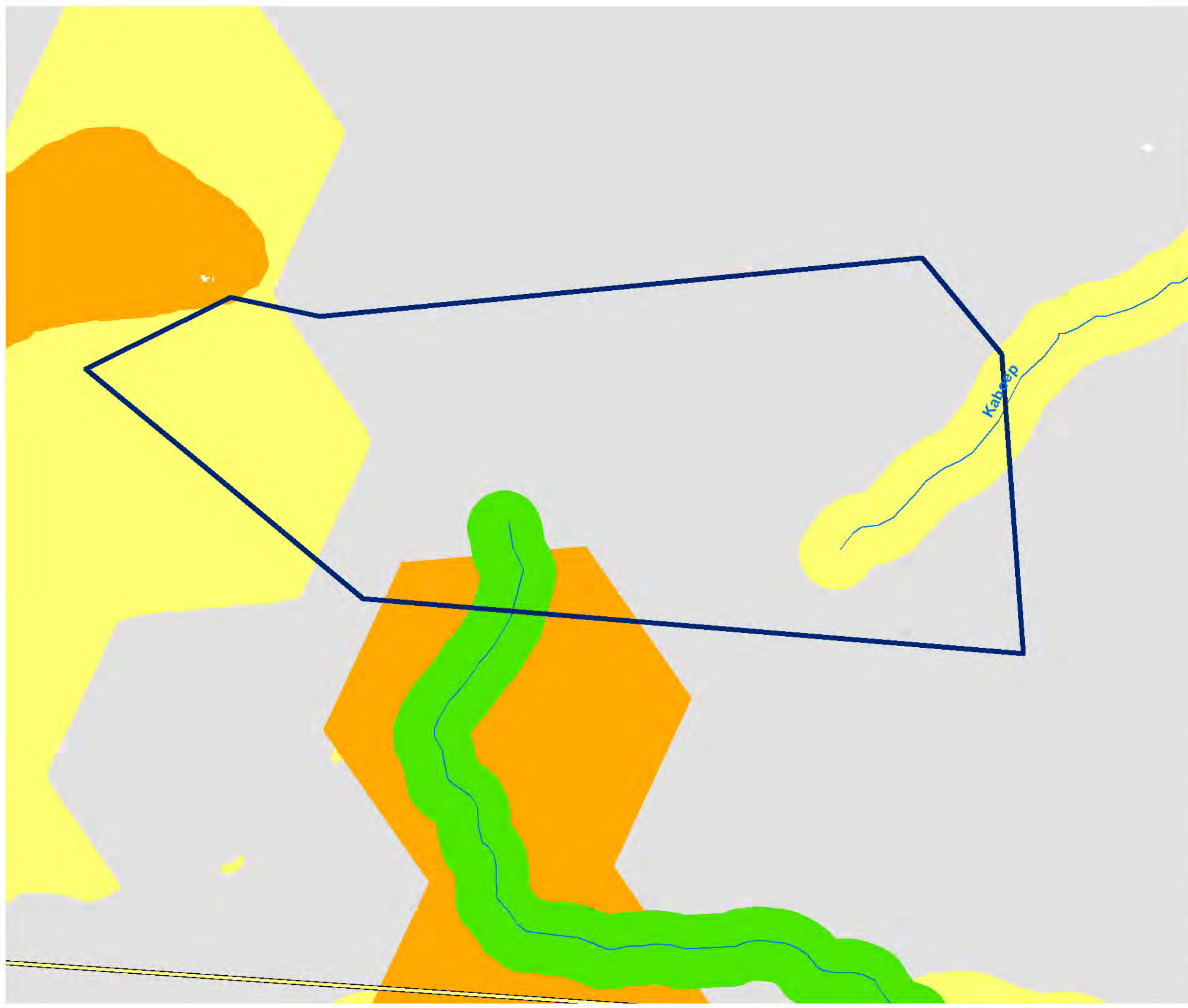
**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 2
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CRITICAL BIODIVERSITY AREAS**

Legend

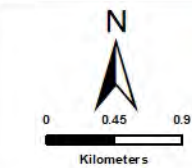
-  Rivers
-  Existing High Voltage Power Line 400kV
-  Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)

CBA Classification

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



Source:
NFEPA, 2011
NORTHERN CAPE SPATIAL BIODIVERSITY PLAN, 2017
ESKOM, 2012



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WIND ENERGY FACILITY 2
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
CRITICAL BIODIVERSITY AREAS**





Legend

-  Rivers
-  Secondary Road (existing)
-  Existing High Voltage Power Line 400kV
-  Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)

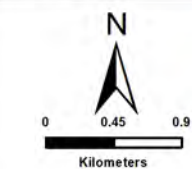
Proposed WEF Components

-  Turbine Locations & Foundations
-  Turbine Hardstands
-  Access Roads
-  Batching Plant
-  BESS Facility
-  Operational & Maintenance Building
-  Site Camp
-  Facility Substation
-  Turbine Laydown Area
-  Warehouse
-  MV Cabling

CBA Classification

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

Source:
NFEPA, 2011
NORTHERN CAPE SPATIAL BIODIVERSITY PLAN, 2017
ESKOM, 2012

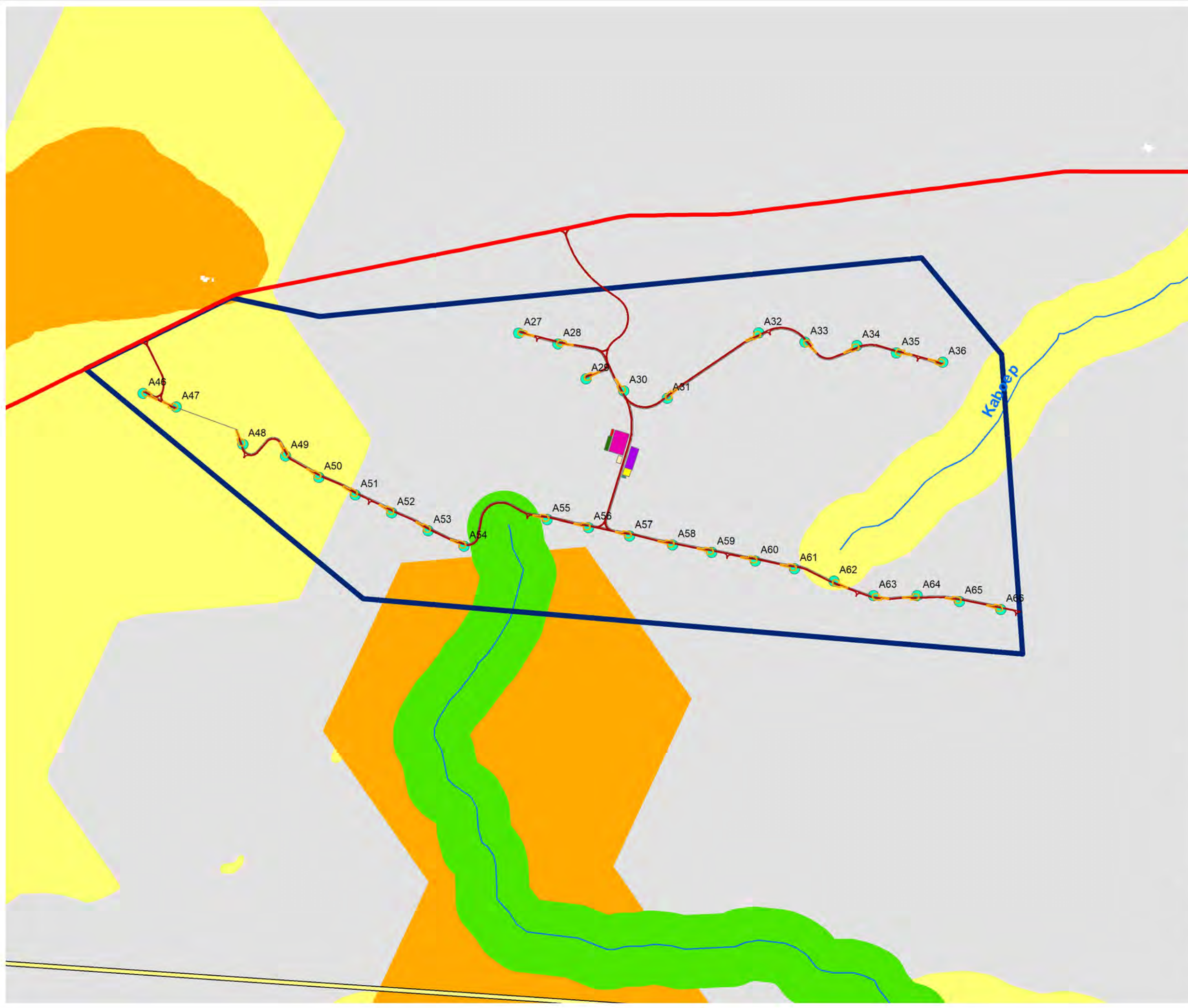


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WIND ENERGY FACILITY 2
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
BROAD LAND COVER
CLASSIFICATION**

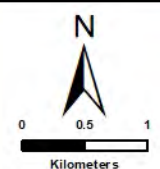
Legend

-  Rivers
-  Existing High Voltage Power Line 400kV
-  Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)

Land Cover Classification

-  Bare Riverbed Material
-  Dry Pans
-  Low Shrubland (Nama Karoo)
-  Low Shrubland (Succulent Karoo)
-  Mines: Extraction pits, Quarries
-  Natural Grassland
-  Other Bare
-  Roads & Rails (Major Linear)
-  Sparsely Wooded Grassland
-  Village Dense (Bare & Low Veg / Grss Combo)
-  Village Scattered (Bare & Low Veg/ Grss combo)

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

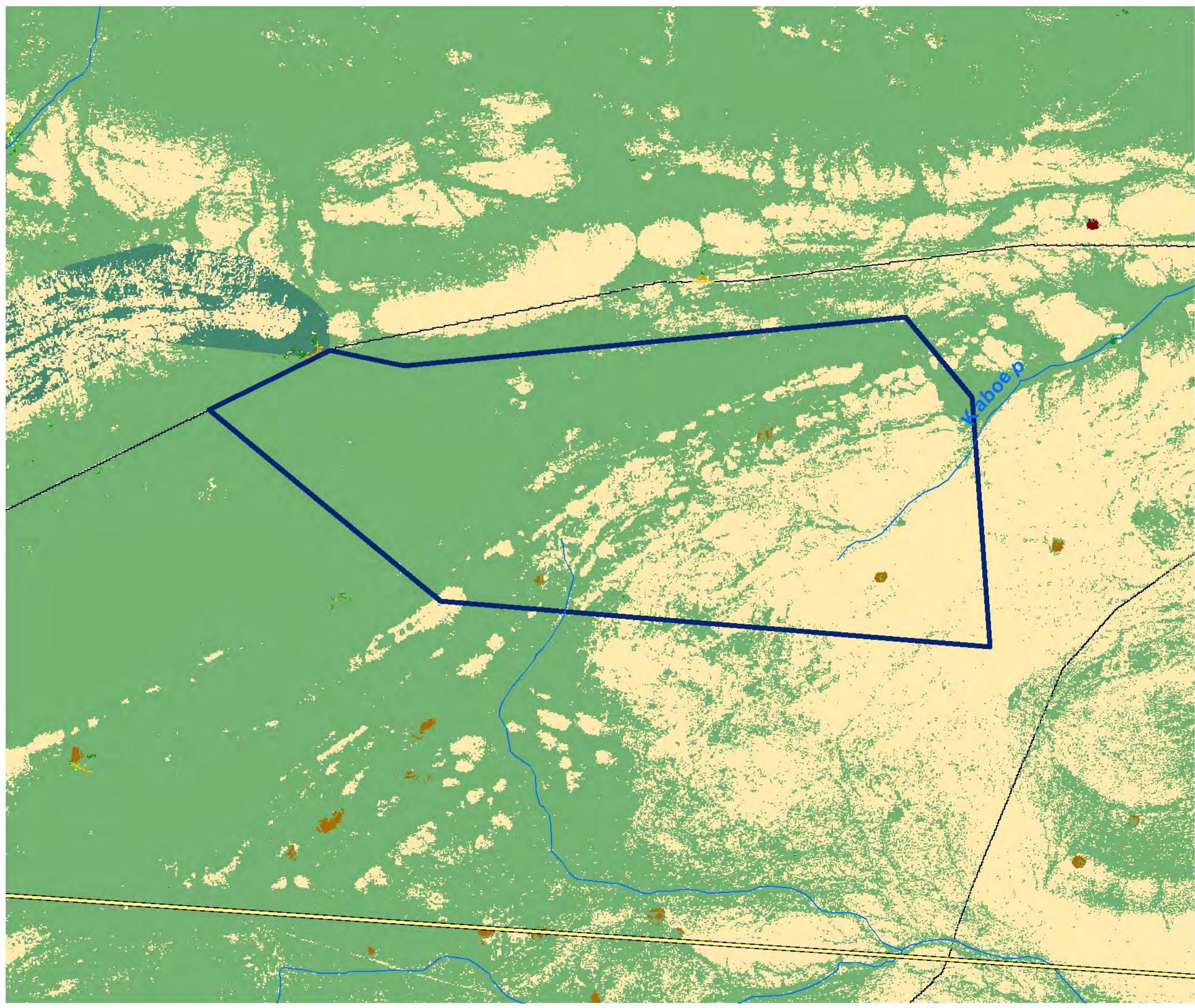


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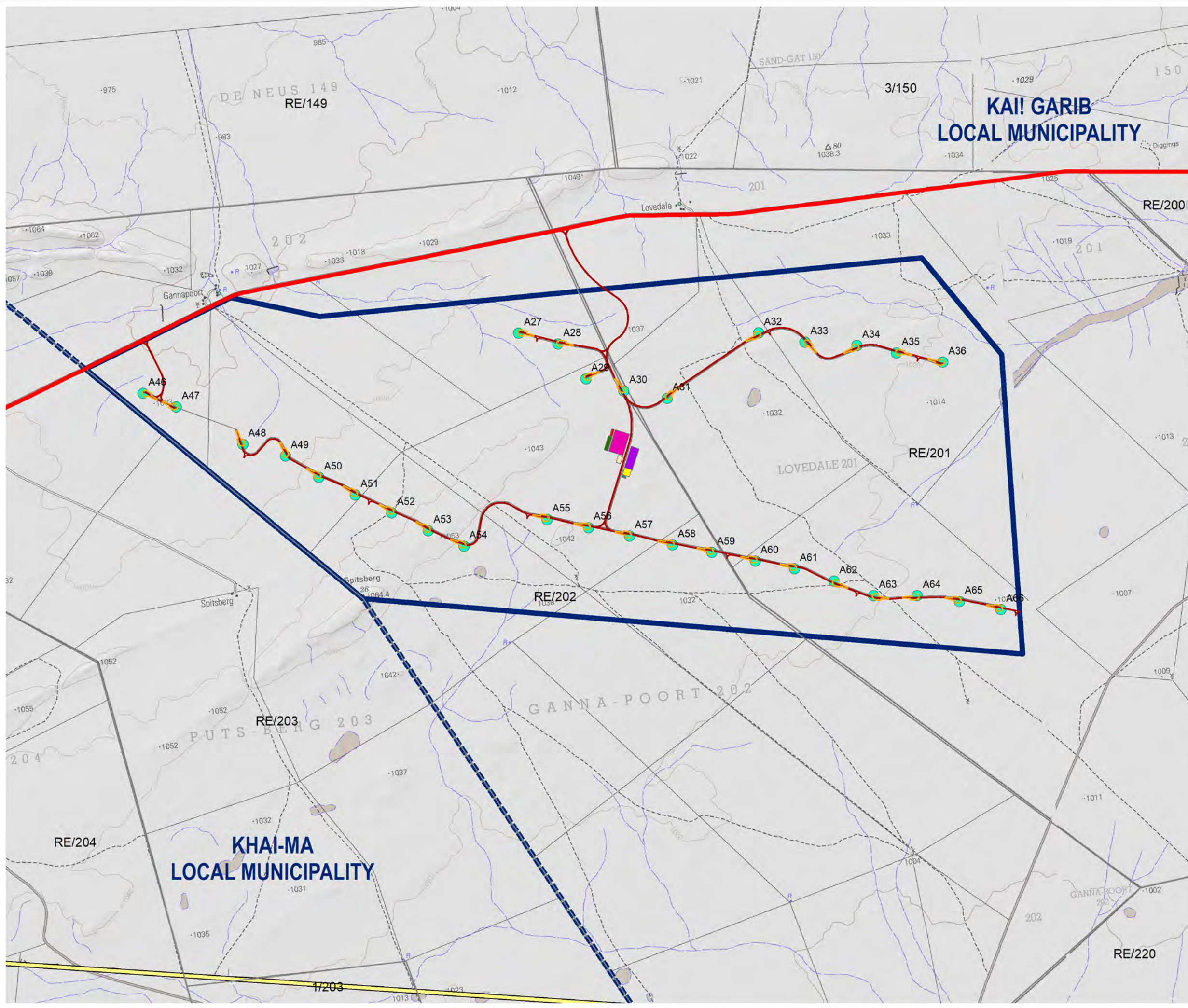
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PROPOSED CONSTRUCTION OF THE POFADDER WIND ENERGY FACILITY 2
WITHIN KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
PROPOSED LAYOUT



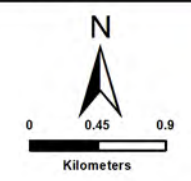
Legend

- Secondary Road (existing, to be widened)
- Existing High Voltage Power Line 400kV
- Local Municipal Boundary
- Farm Portions
- Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)

Proposed WEF Components

- Turbine Locations & Foundations
- Turbine Hardstands
- Access Roads (new & existing, to be widened)
- Batching Plant
- BESS Facility
- Operational & Maintenance Building
- Site Camp
- Facility Substation
- Turbine Laydown Area
- Warehouse
- MV Cabling

Source:
 NGI, 2014
 MUNICIPAL DERMACATION BOARD, 2016
 ESKOM, 2012



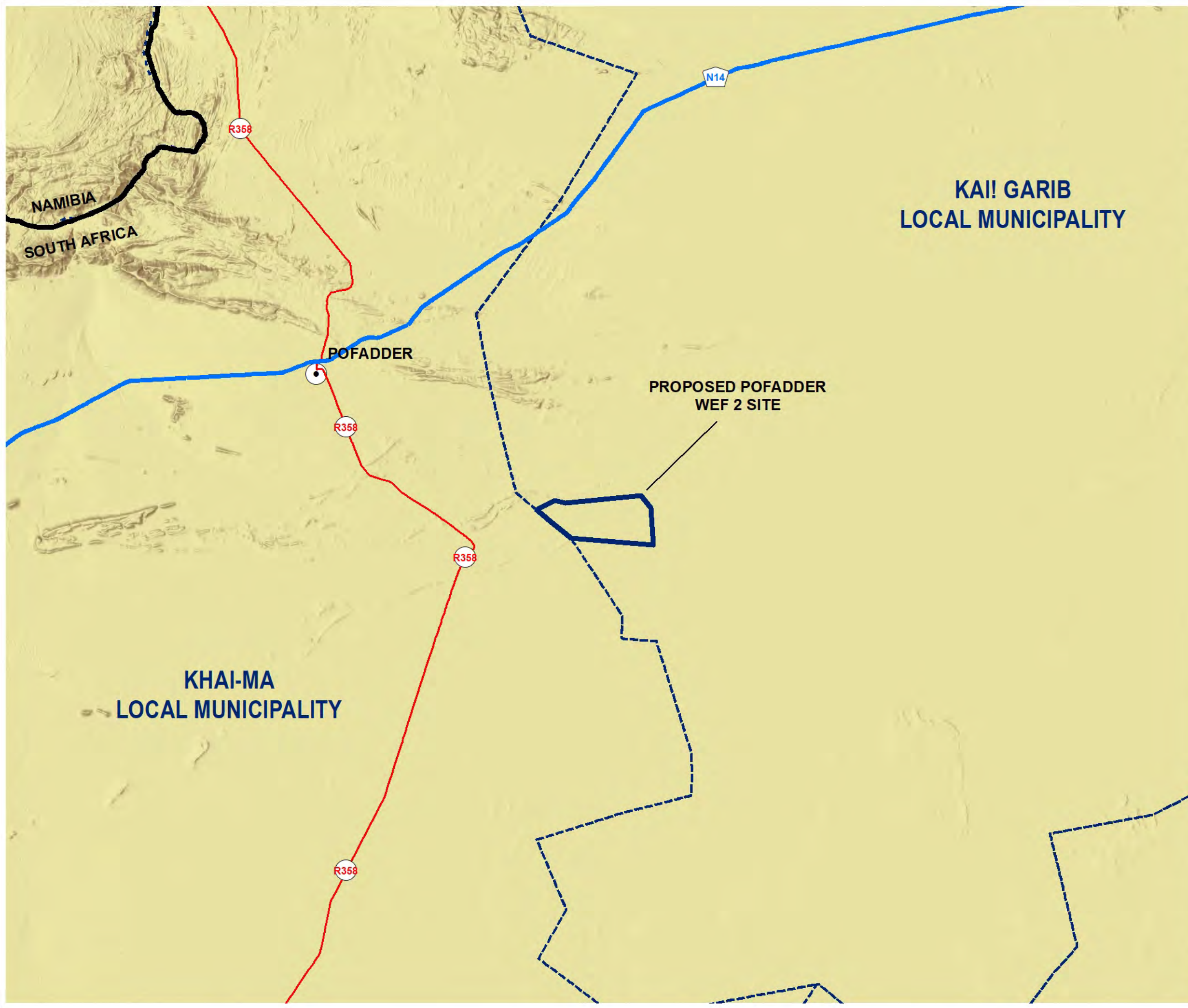
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PROPOSED CONSTRUCTION OF THE POFADDER WIND ENERGY FACILITY 2
WITHIN
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NORTHERN CAPE PROVINCE
REGIONAL CONTEXT

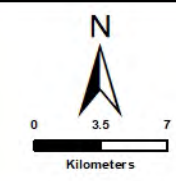


Legend

- Main Towns
- National Boundary
- Local Municipal Boundaries
- National Route
- Main Road
- Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)



Source:
 NGI, 2014
 MUNICIPAL DEMARCATION BOARD, 2016



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**PROPOSED CONSTRUCTION
OF THE POFADDER
WIND ENERGY FACILITY 2
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE**

SENSITIVITY LAYOUT



Legend

Secondary Road (existing, to be widened)

Pofadder WEF 2 Application Site (29°18'24.31"S: 19°41'31.37"E)

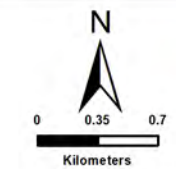
Proposed WEF Components

- Turbine Locations & Foundations
- Turbine Hardstands
- Access Roads (new & existing, to be widened)
- Batching Plant
- BESS Facility
- Operational & Maintenance Building
- Site Camp
- Facility Substation
- Turbine Laydown Area
- Warehouse
- WEF 2 MV Cabling

Environmental Sensitivities (inclusive of buffers)

- Surface Water Features
- Ecological Sensitivity
- Heritage Sensitivity
- Avifaunal Sensitivity
- Bat Sensitivity

Source:
NGI, 2014



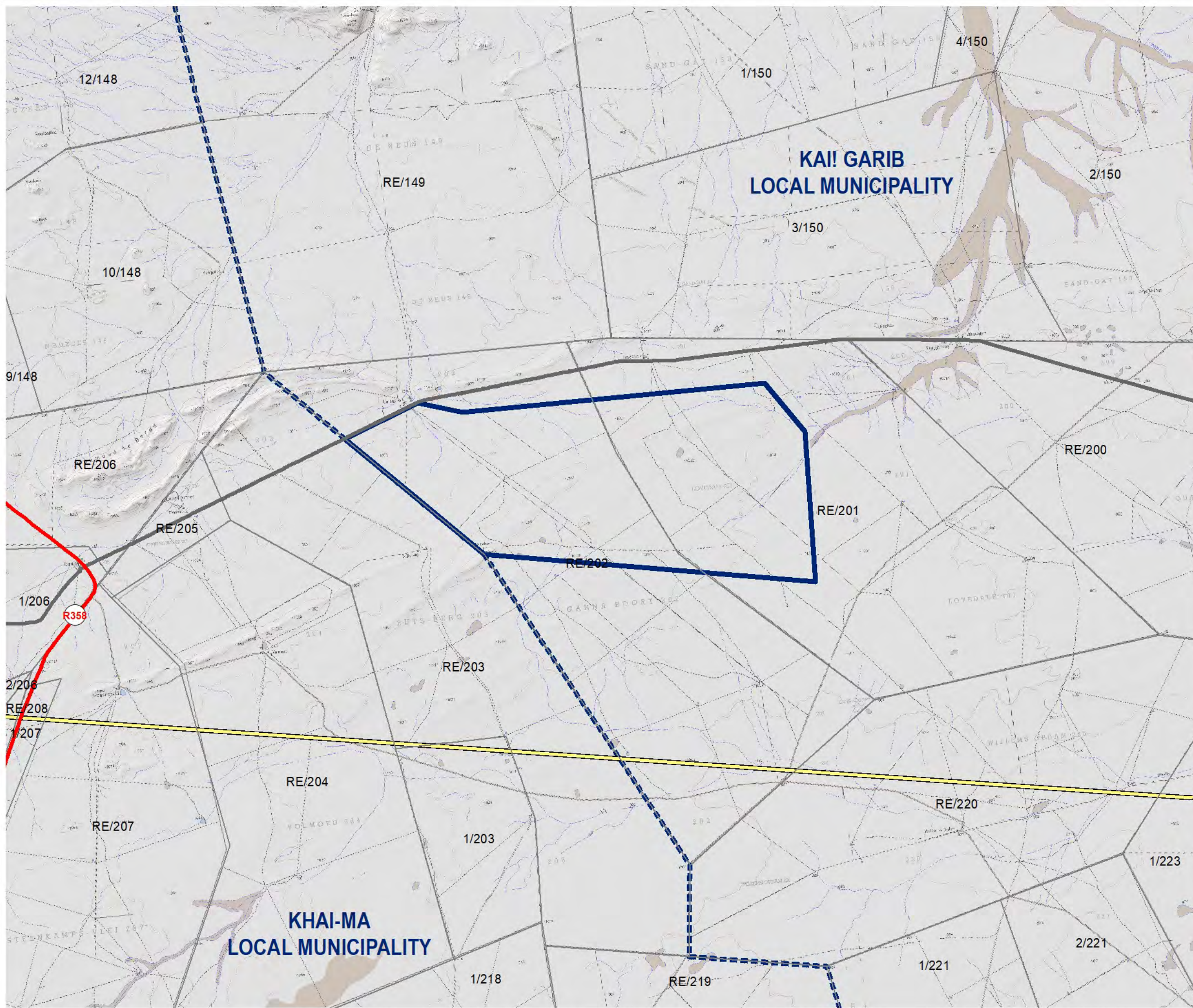
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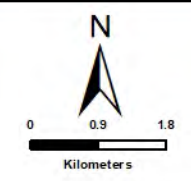
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**PROPOSED CONSTRUCTION
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WIND ENERGY FACILITY 2
WITHIN
KAI! GARIB LOCAL MUNICIPALITY,
NORTHERN CAPE PROVINCE
SITE LOCALITY**



- Legend**
- Existing High Voltage Power Line 400kV
 - Main Road
 - Secondary Road
 - Local Municipal Boundary
 - Farm Portions
 - Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)

Source:
NGI, 2014
MUNICIPAL DERMACATION BOARD, 2016
ESKOM, 2012



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**PROPOSED CONSTRUCTION
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WITHIN
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NORTHERN CAPE PROVINCE
TURBINE
SENSITIVITY LAYOUT**

Legend

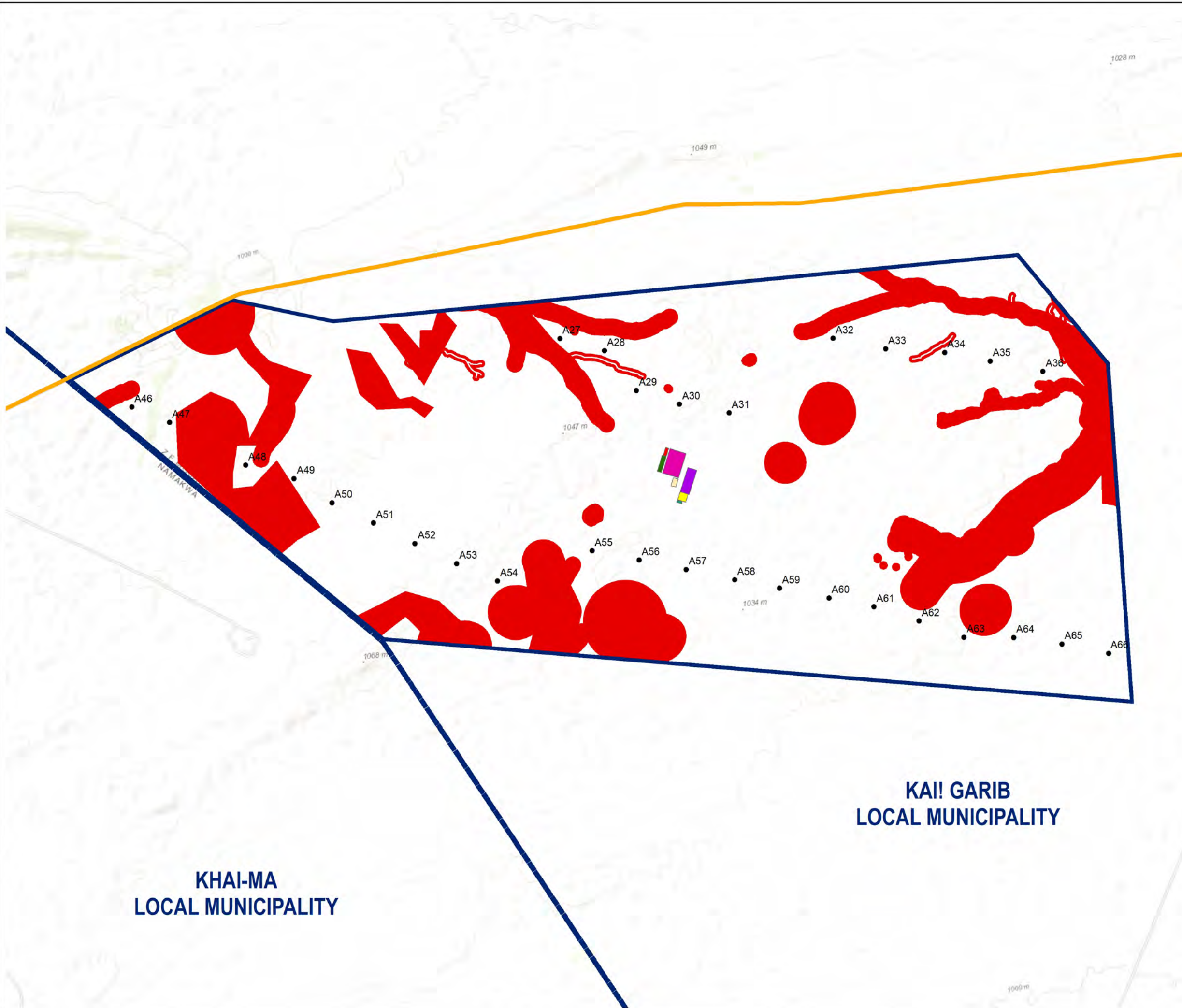
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-  Local Municipal Boundary
-  Pofadder WEF 2 Application Site (29°18'24.31"S: 19°41'31.37"E)

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-  Batching Plant
-  BESS Facility
-  Operational & Maintenance Building
-  Site Camp
-  Facility Substation
-  Turbine Laydown Area
-  Warehouse

Sensitivity Category

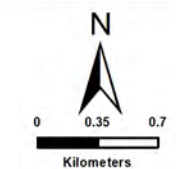
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**KAI! GARIB
LOCAL MUNICIPALITY**

**KHAI-MA
LOCAL MUNICIPALITY**

Source:
NGI, 2014



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
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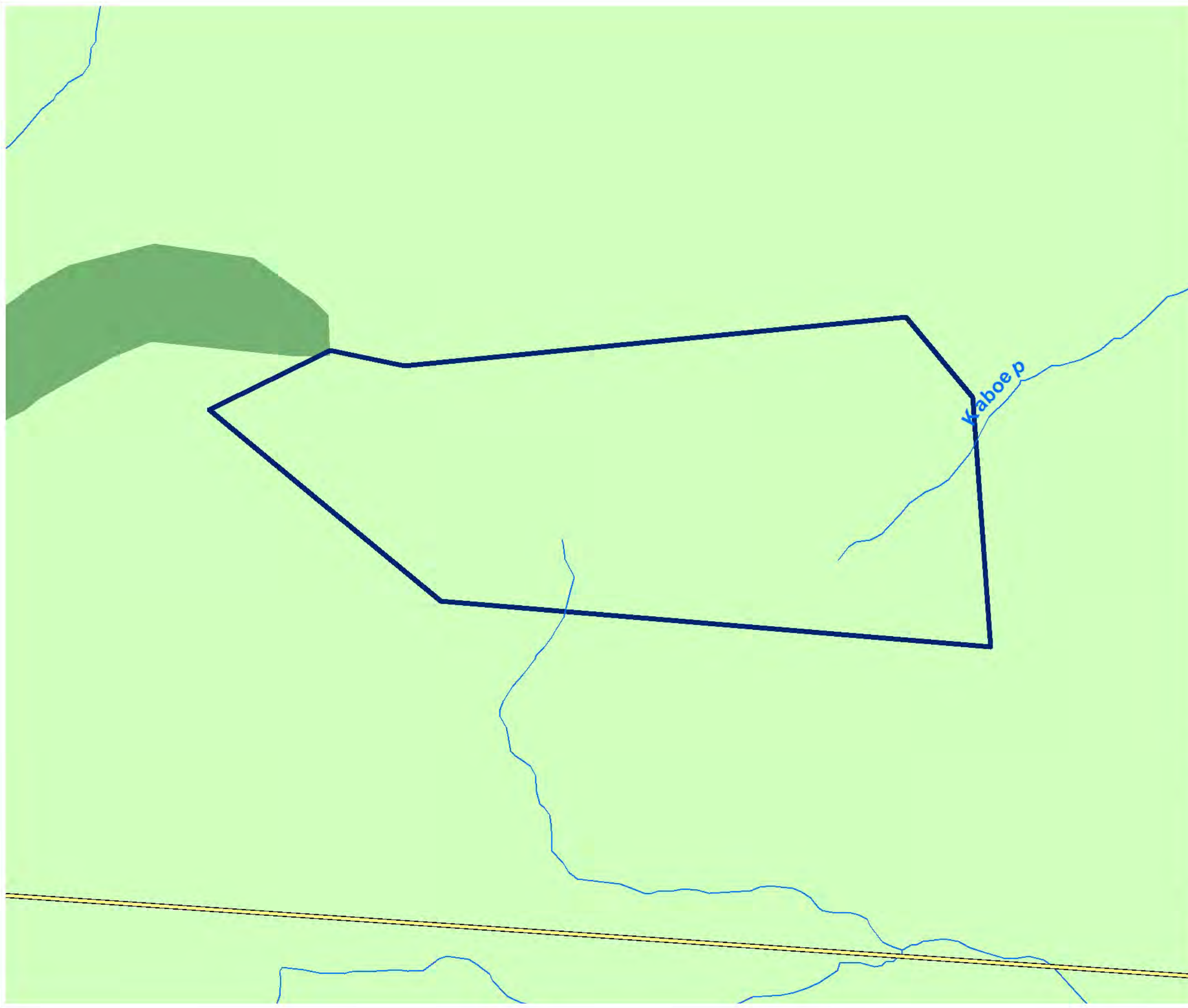
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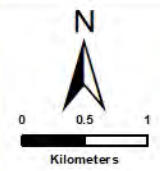
**PROPOSED CONSTRUCTION
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VEGETATION CLASSIFICATION**

Legend

-  Rivers
 -  Existing High Voltage Power Line 400kV
 -  Pofadder WEF 2 Application Site (29°18'24.31"S; 19°41'31.37"E)
- Vegetation Classification**
-  Bushmanland Inselberg Shrubland
 -  Bushmanland Arid Grassland



Source:
NFPA, 2011
SANBI, 2018
ESKOM, 2012



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