

Appendix A:

Mapping and Photographs

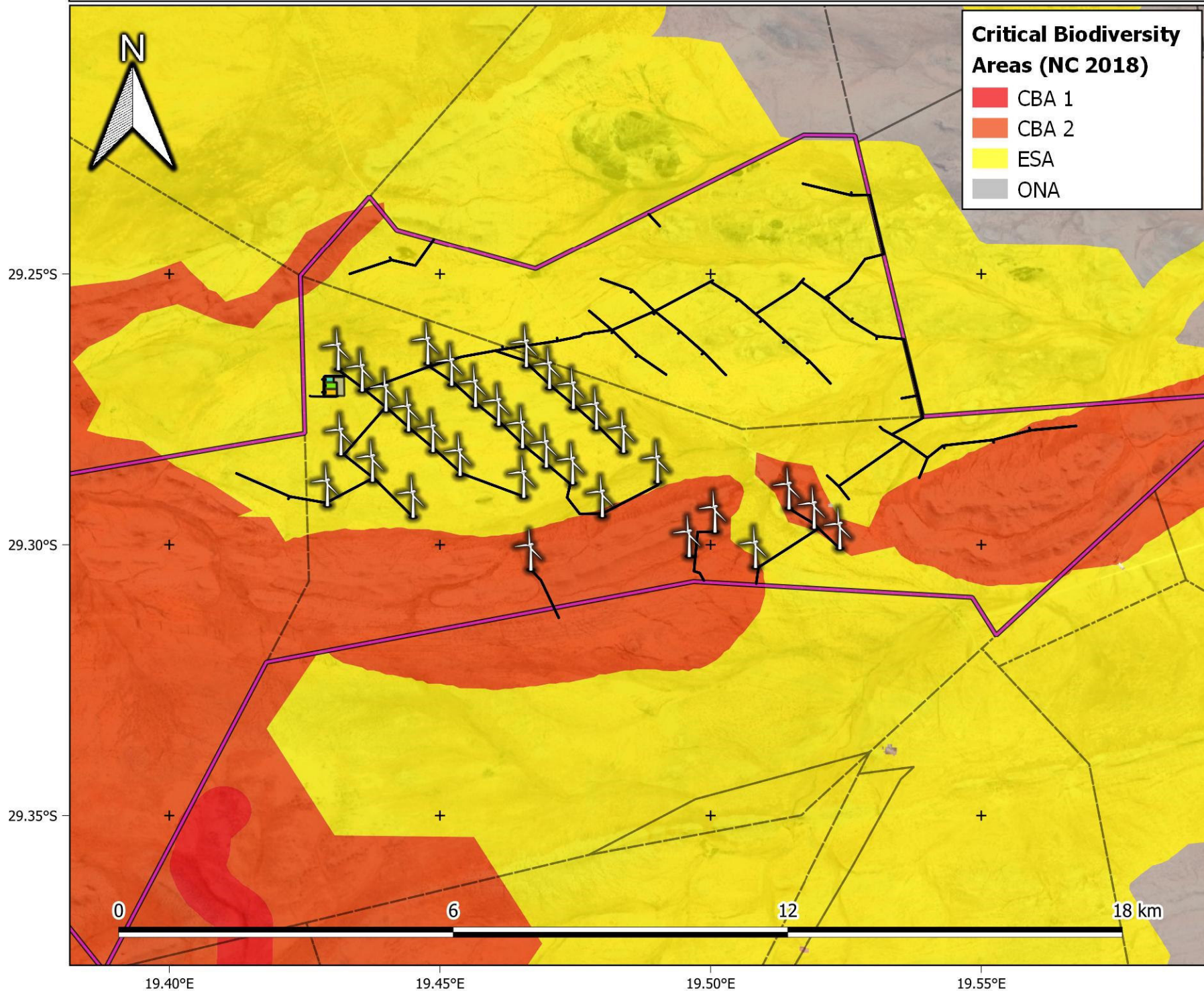


Appendix A1:

Mapping



De Rust: WEF South - Critical Biodiversity Areas



Critical Biodiversity Areas (NC 2018)

- CBA 1
- CBA 2
- ESA
- ONA

Legend

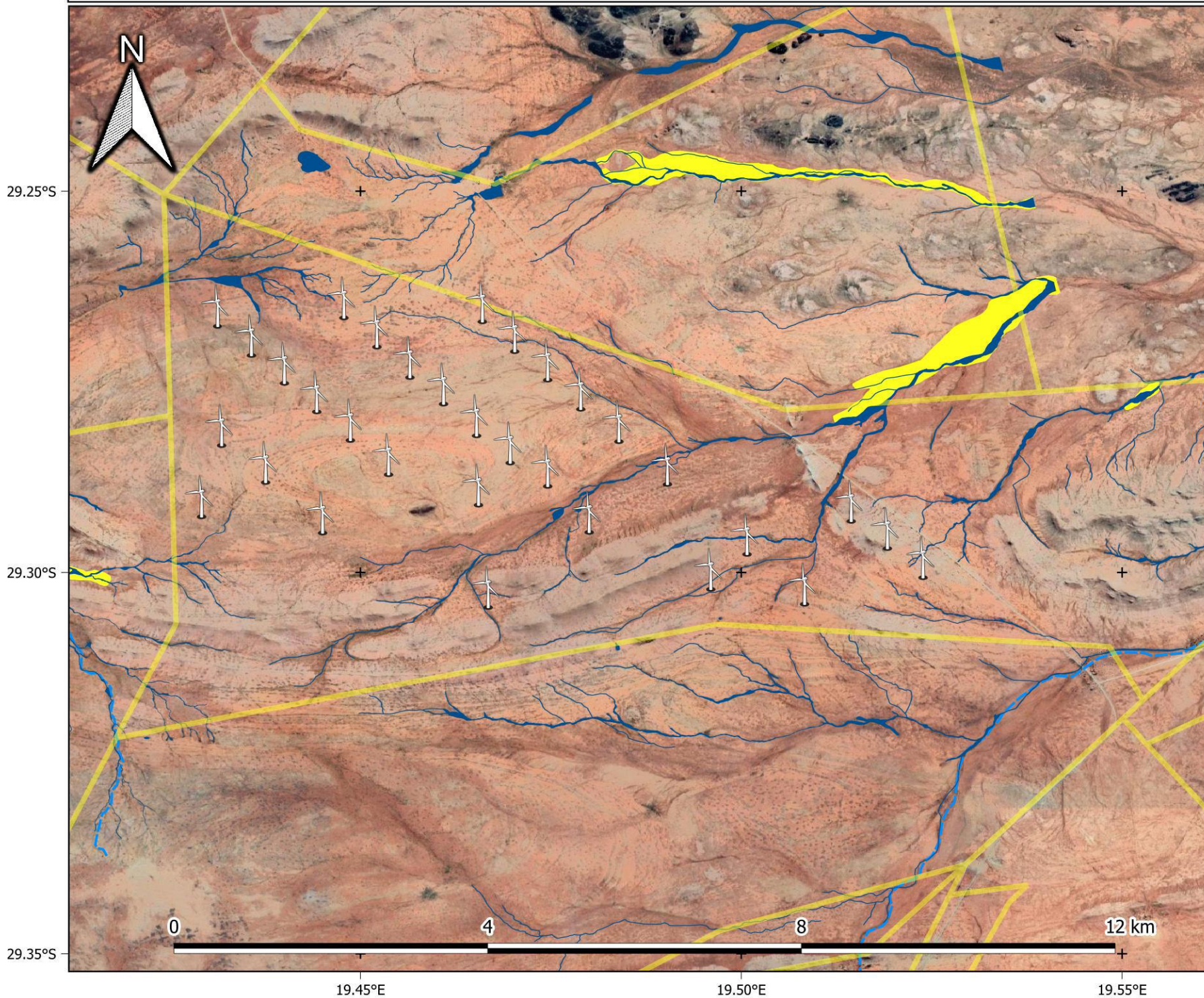
- WEF boundary
- Farm portions
- Proposed infrastructure**
- Turbine layout (alternative 1)
- Laydown area
- BESS
- O&M building
- OSS
- Roads

1:70 000

Provincial Context

EnviroINSIGHT
environmental impact assessments

De Rust: WEF South - Hydrology

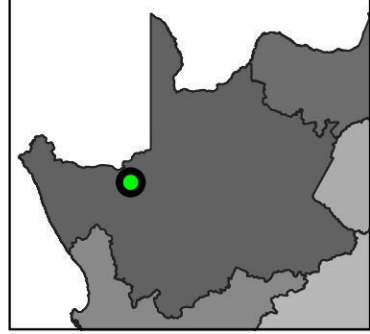


Legend

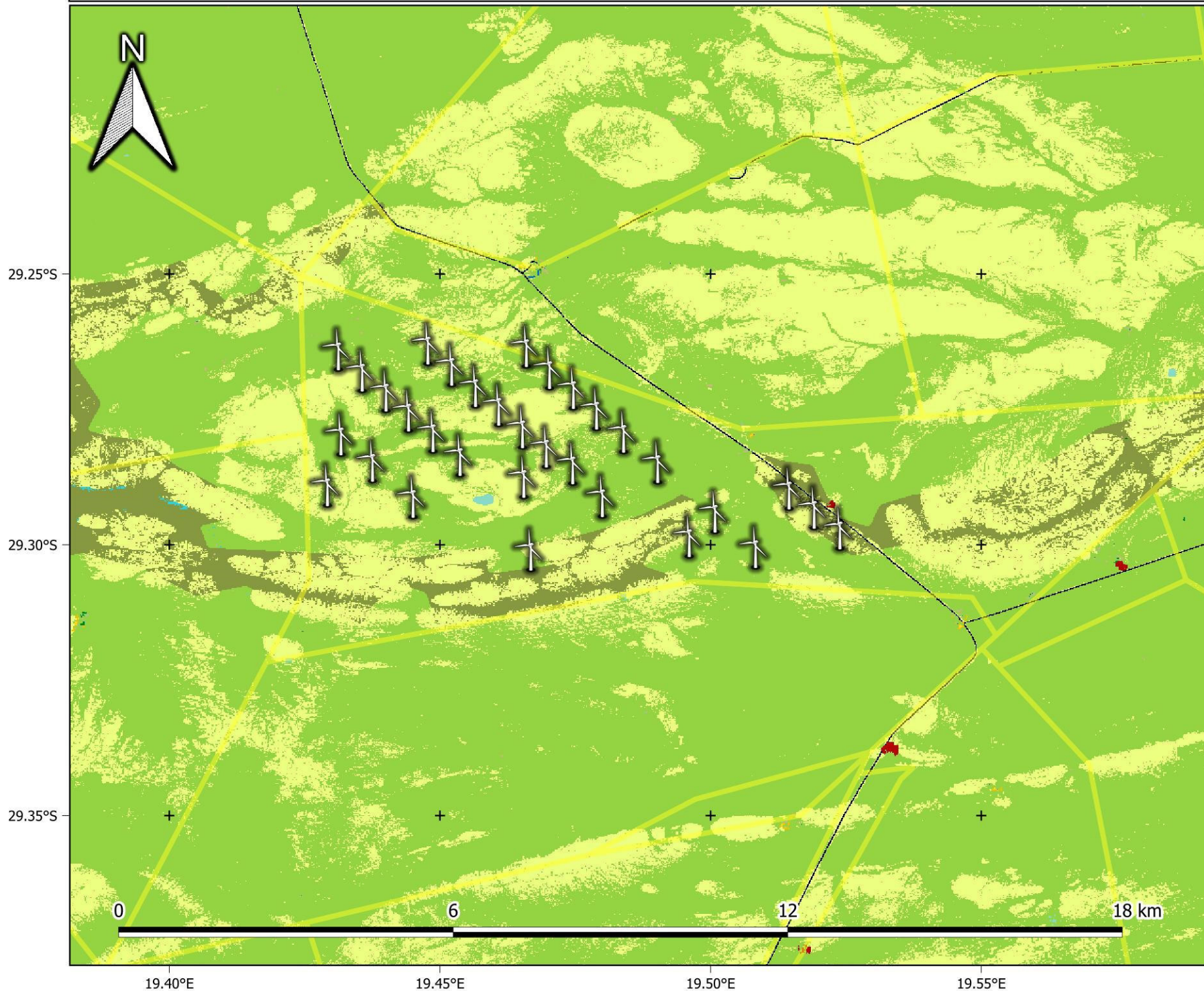
- Turbine layout
- Farm portions
- Aquatic ecologist's delineations**
 - Watercourses
 - Alluvial plains
- NFEPA (2012)**
 - Rivers
 - Wetlands

1:50 000

Provincial Context



De Rust: WEF South - Land Cover



Legend

- Turbine layout
- Farm portions

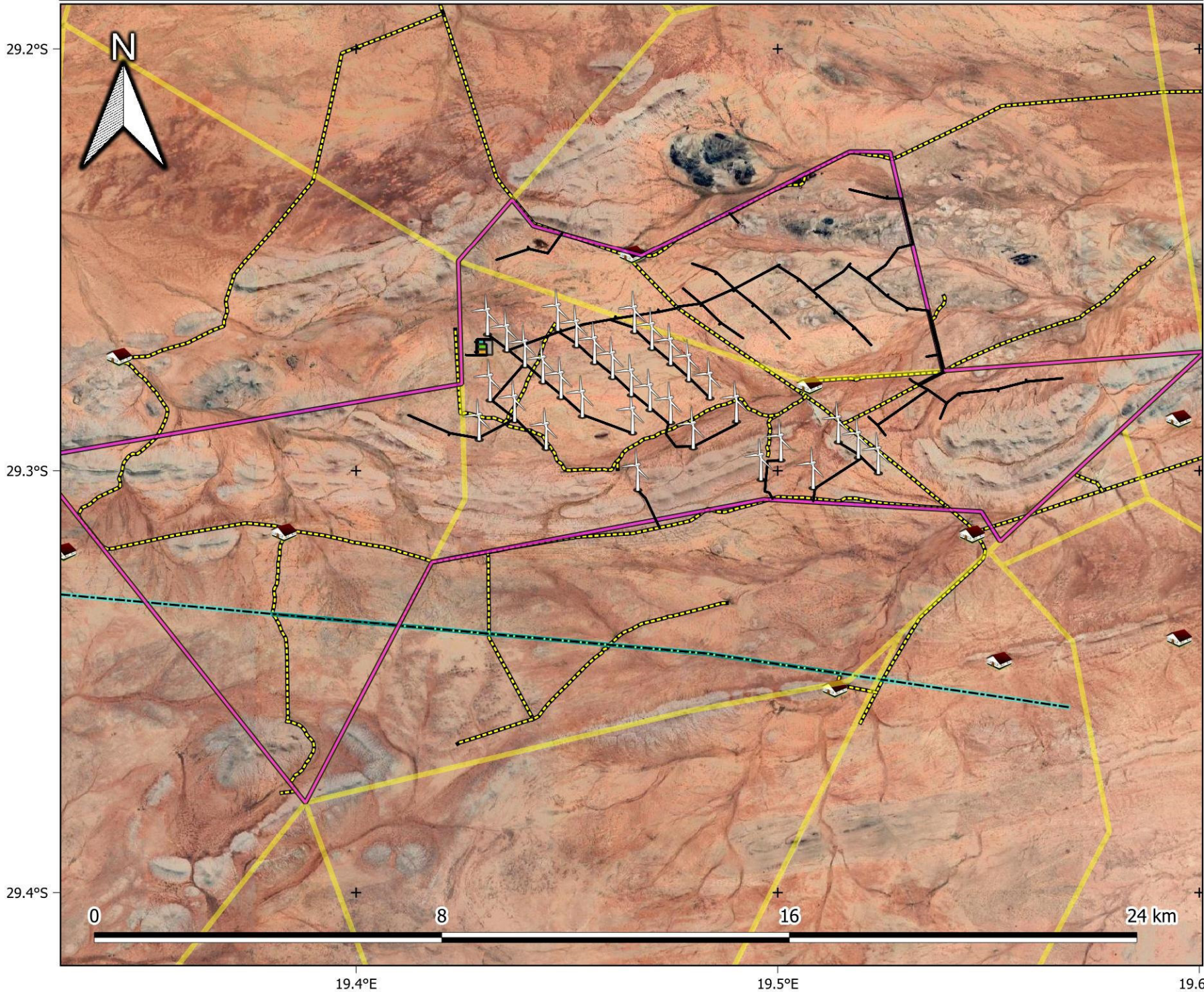
National Land Cover (SA NLC 2018)

- Low Shrubland (other regions)
- Low Shrubland (Succulent Karoo)
- Low Shrubland (Nama Karoo)
- Dry Pans
- Bare Riverbed Material
- Bare Ground
- Roads and Rail
- Mines

1:70 000

Provincial Context

De Rust: WEF South - Layout

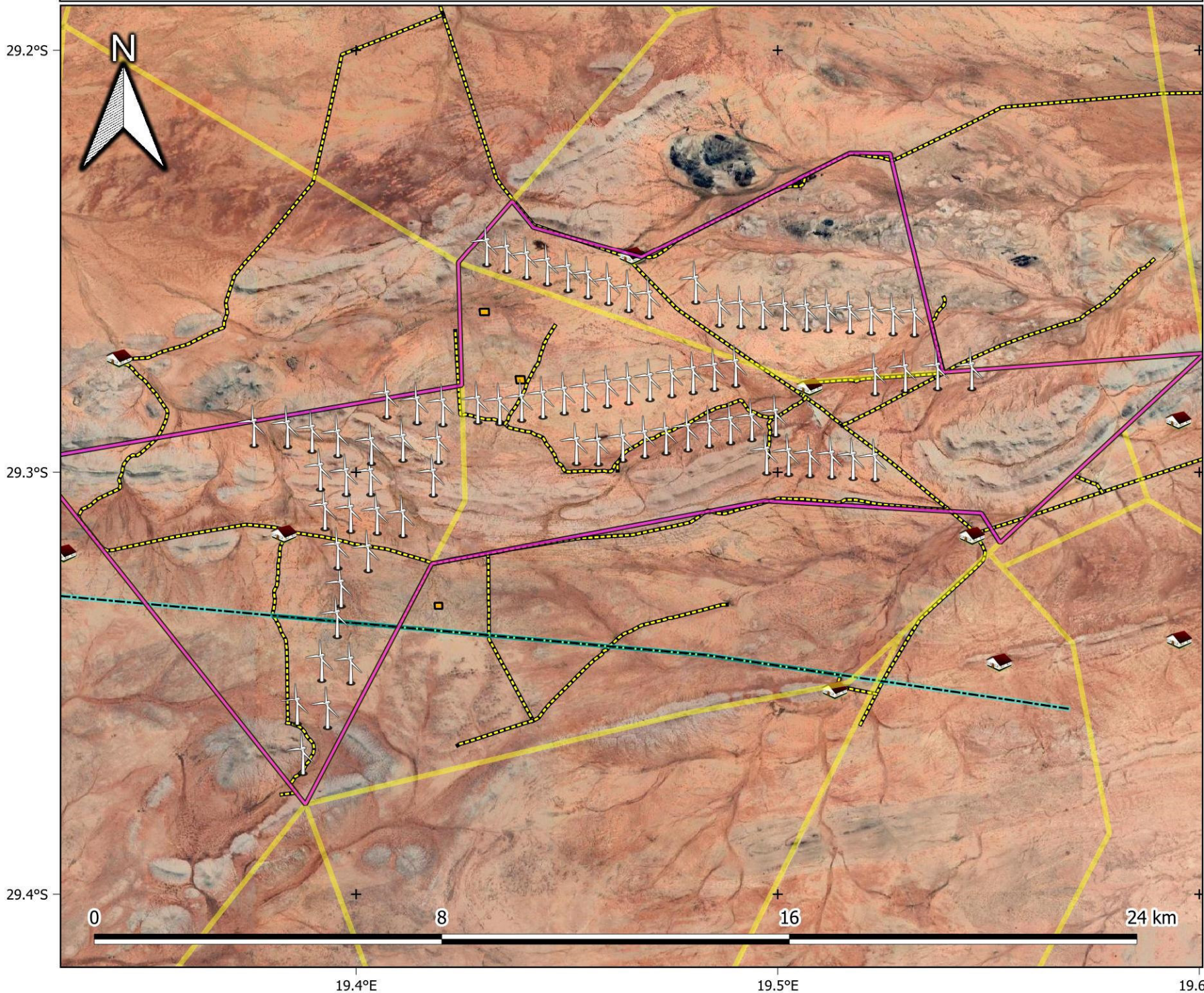


Legend

- WEF boundary
- Parent farms
- Existing infrastructure**
 - Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
 - Turbine layout (alternative 1)
 - Laydown area
 - Roads
 - BESS
 - O&M building
 - OSS 1:90 000



De Rust: WEF - Layout (Alternative 2)



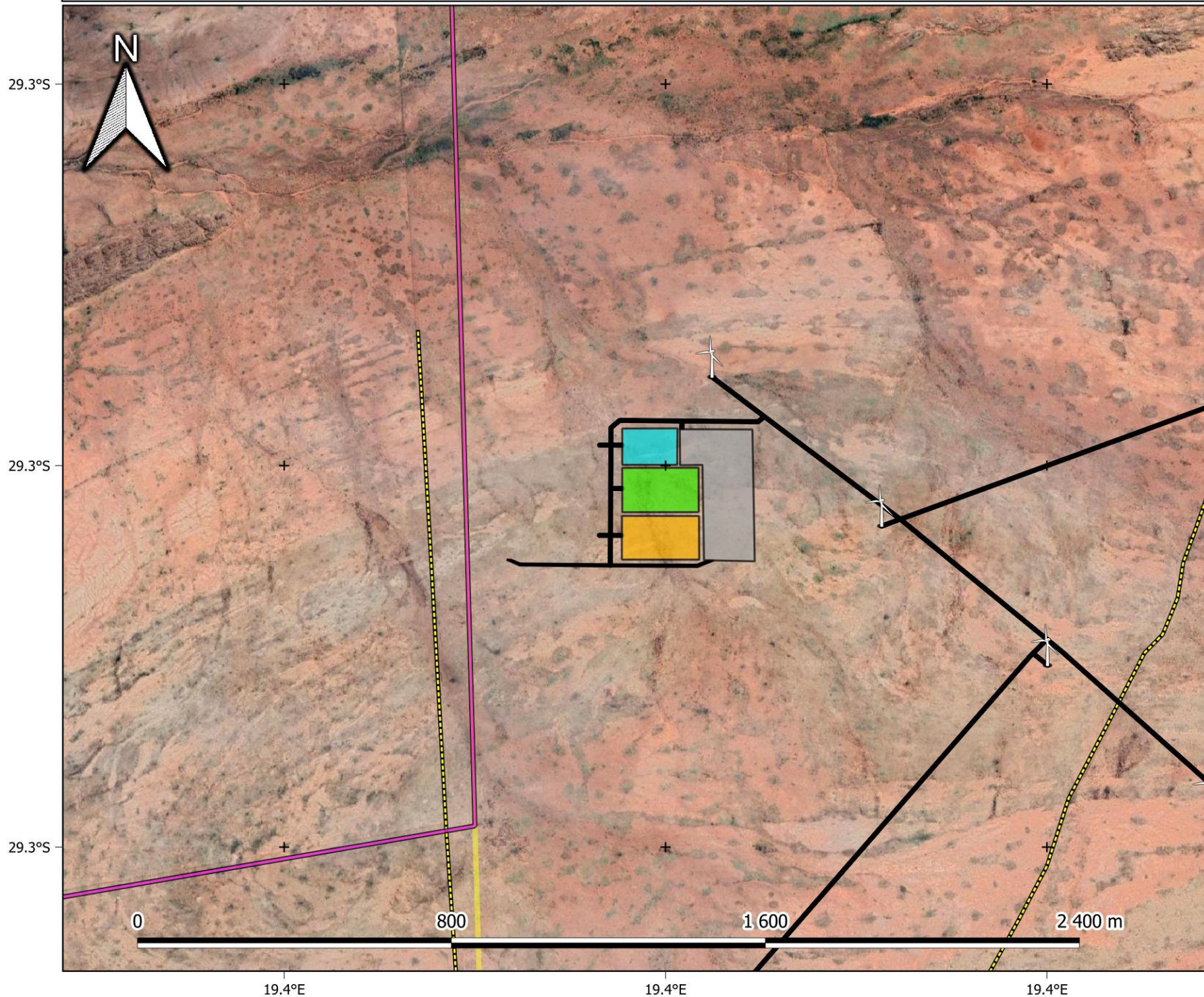
Legend

- WEF boundary
- Parent farms
- Existing infrastructure**
 - Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
 - Turbine layout (alternative 2)
 - OSS

1:90 000

Provincial Context

De Rust: WEF South - Layout

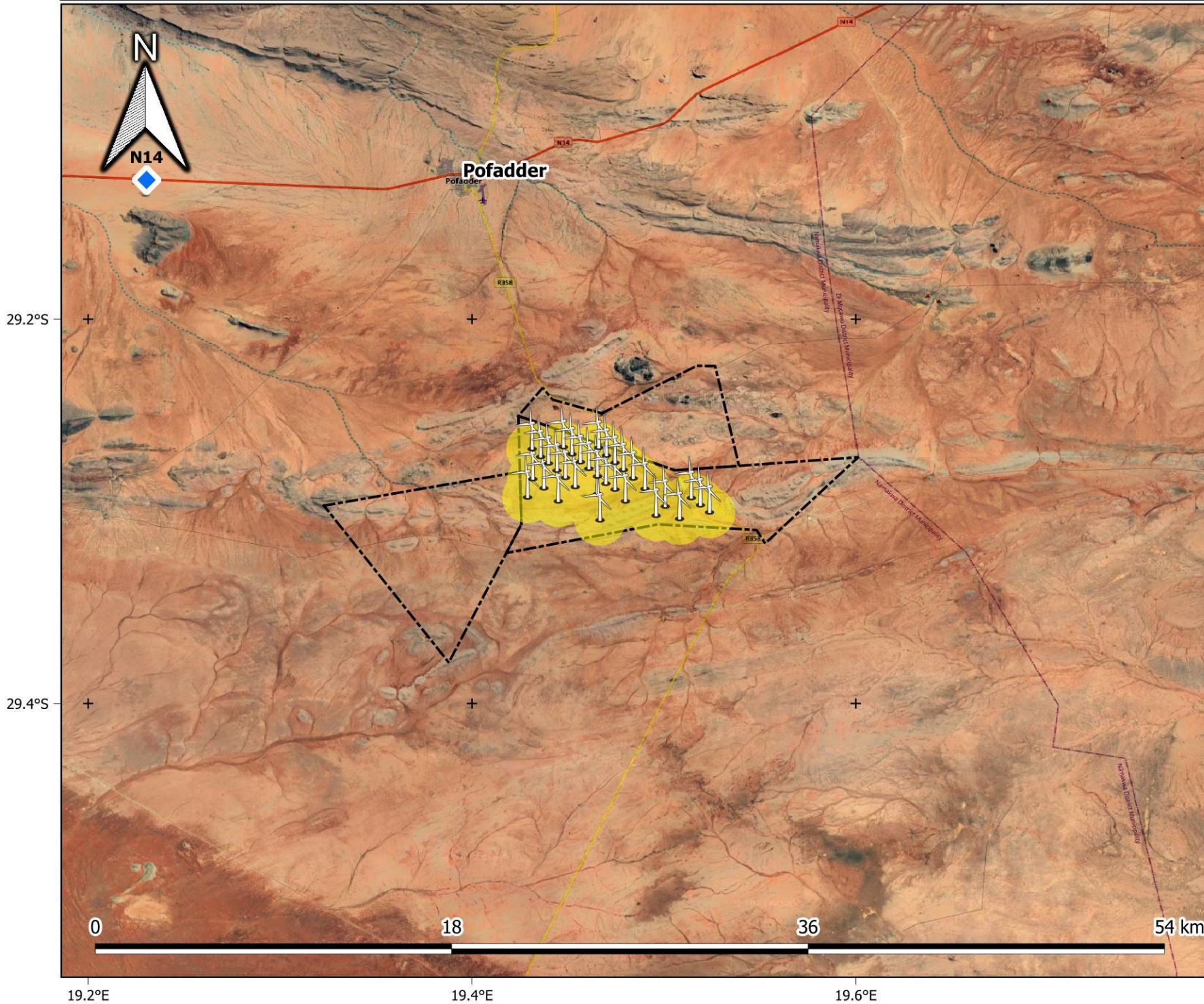


Legend

- WEF boundary
- Parent farms
- Existing infrastructure**
 - Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
 - Turbine layout (alternative 1)
 - Laydown area
 - Roads
 - BESS
 - O&M building
 - OSS 1:10 000

Provincial Context

De Rust: WEF South - Aerial



Legend

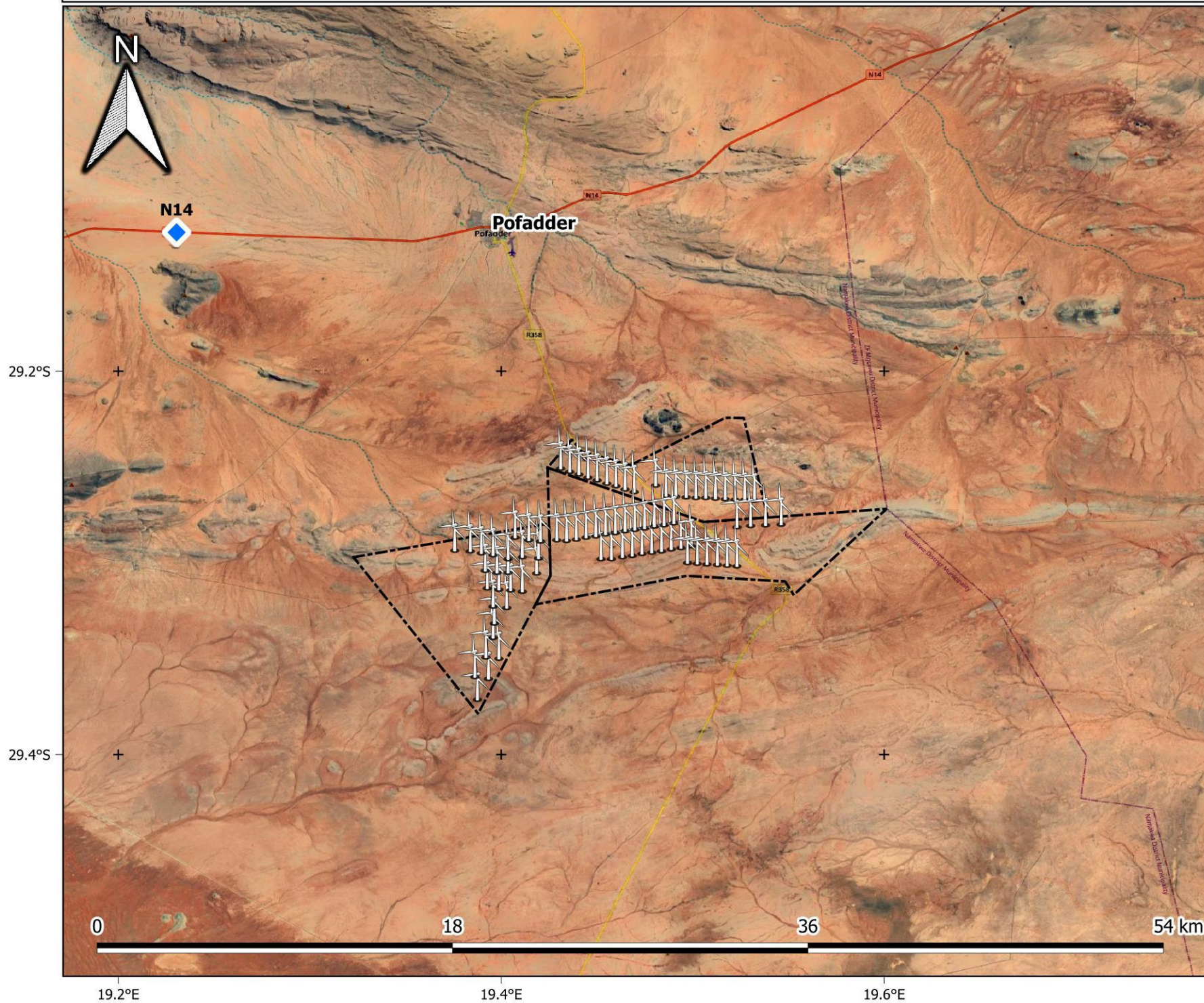
-  Turbine layout South
-  Farm portions

1:200 000



Provincial Context



De Rust: WEF - Alternative Aerial (Location)

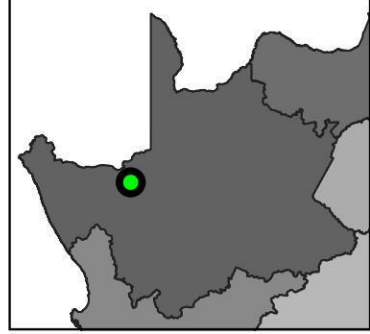


Legend

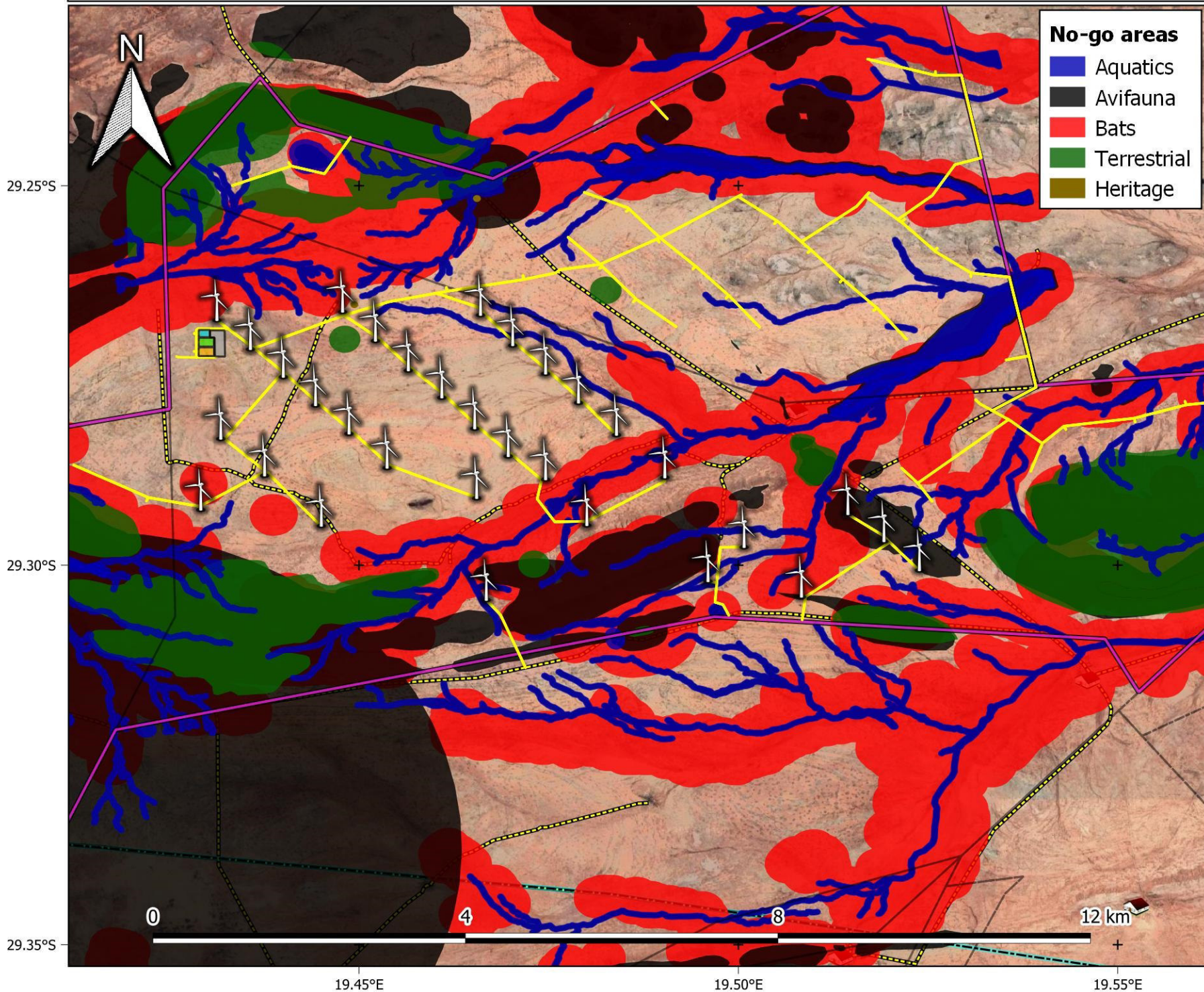
-  Turbine layout
-  Farm portions

1:200 000

Provincial Context



De Rust: WEF South - No-Go Areas

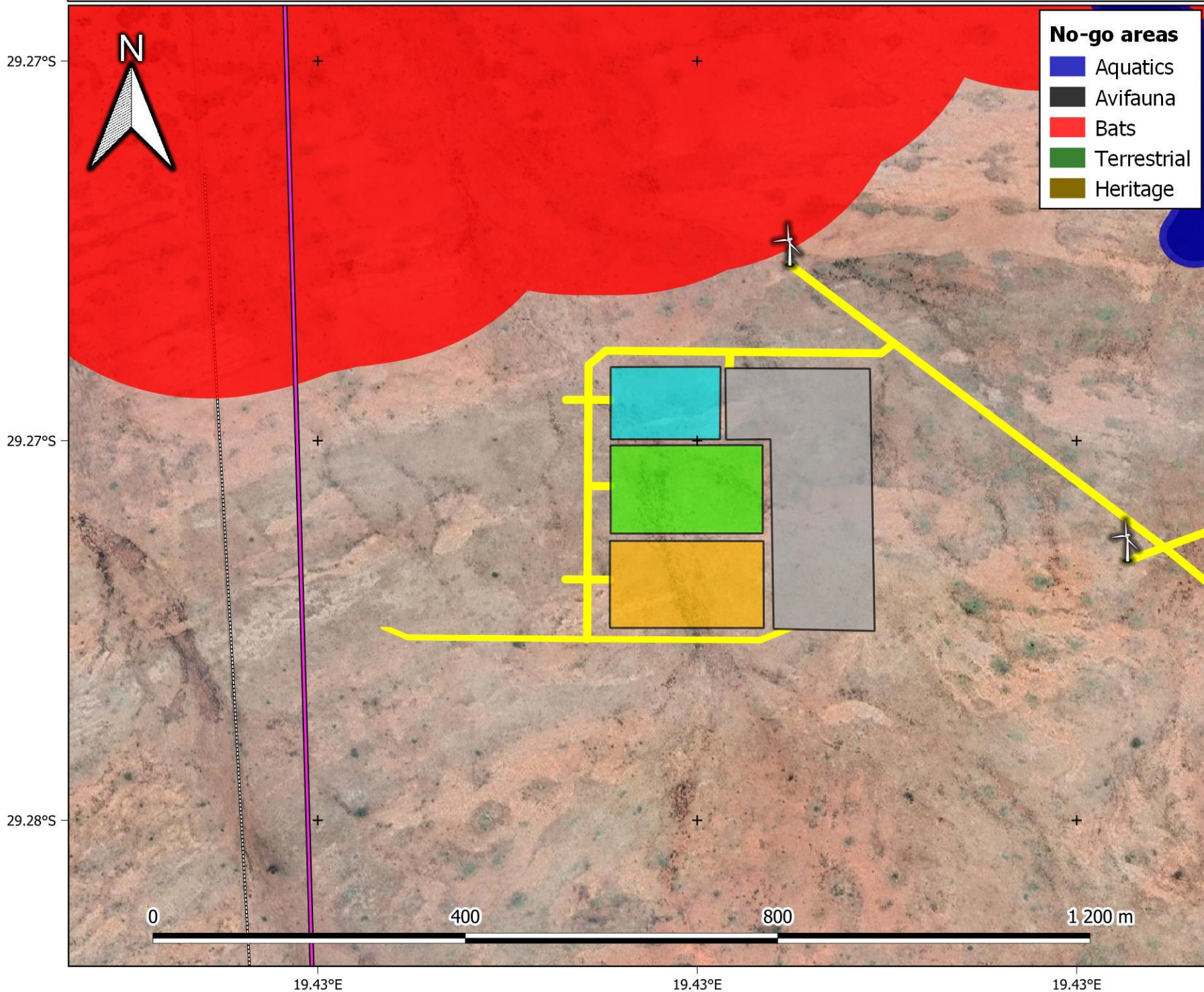


- No-go areas**
- Aquatics
 - Avifauna
 - Bats
 - Terrestrial
 - Heritage

- Legend**
- WEF boundary
 - Farm portions
- Existing infrastructure**
- Farm houses
 - - - OH powerlines
 - - - Roads
- Proposed infrastructure**
- Turbine layout (alternative 1)
 - Laydown area
 - Roads
 - BESS
 - O&M building
 - OSS 1:50 000



De Rust: WEF South - No-Go Areas



No-go areas

- Aquatics
- Avifauna
- Bats
- Terrestrial
- Heritage

Legend

- WEF boundary
- Farm portions

Existing infrastructure

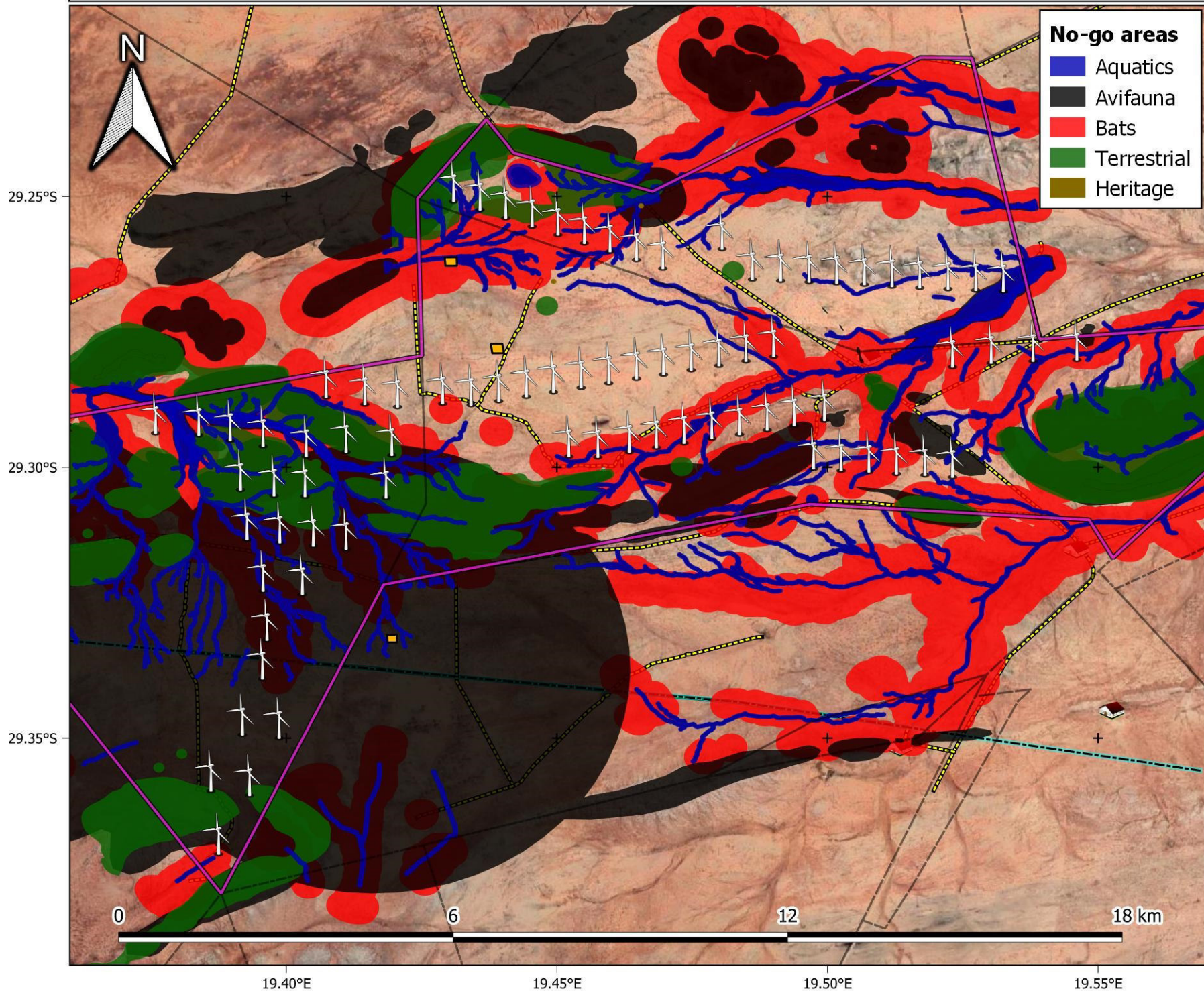
- Farm houses
- OH powerlines
- Roads

Proposed infrastructure

- Turbine layout (alternative 1)
- Laydown area
- Roads
- BESS
- O&M building
- OSS 1:5 000



De Rust: WEF - No-Go Areas (Alternative Layout)



- No-go areas**
- Aquatics
 - Avifauna
 - Bats
 - Terrestrial
 - Heritage

Legend

- WEF boundary
- Farm portions

Existing infrastructure

- Farm houses
- OH powerlines
- Roads

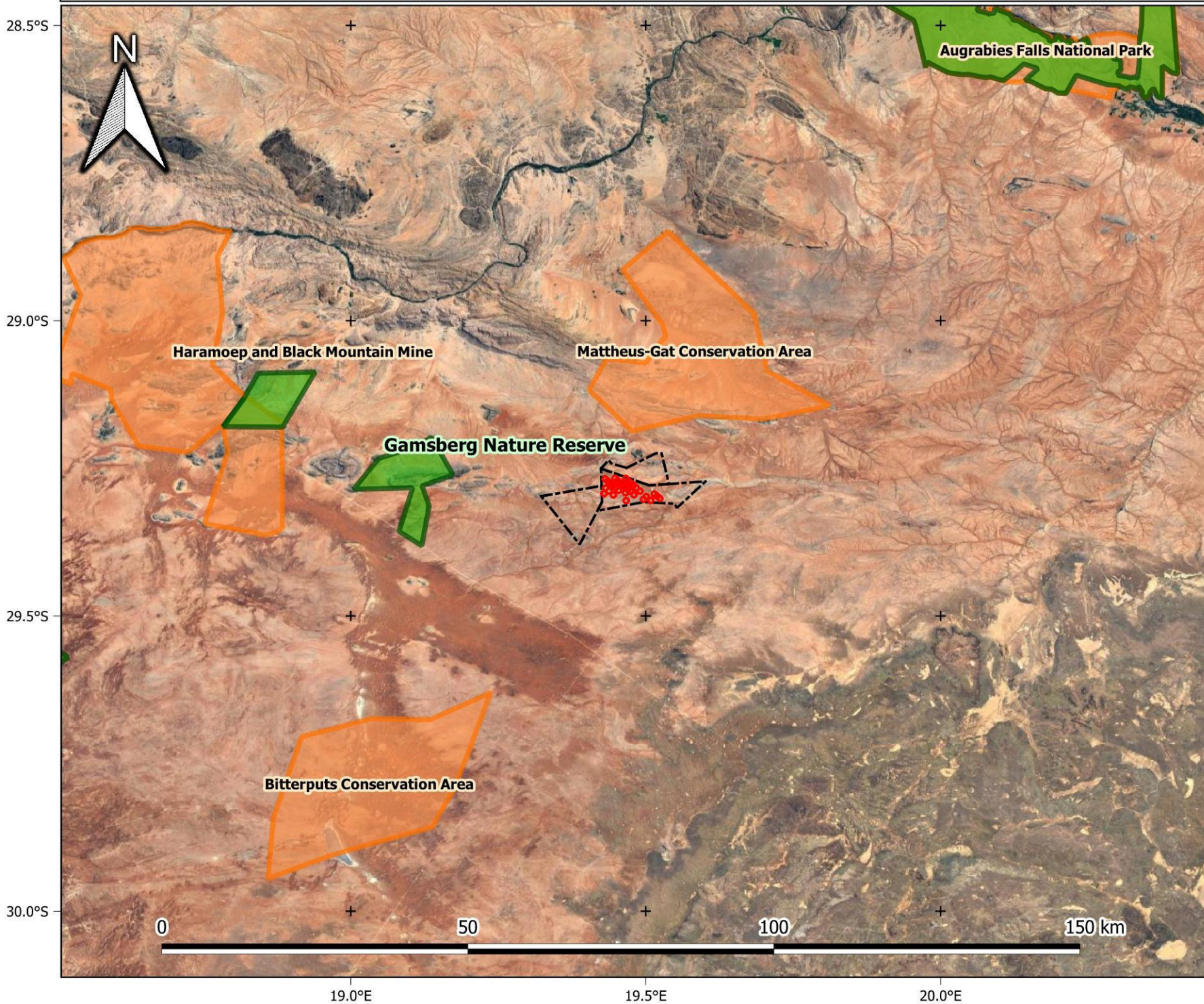
Proposed infrastructure

- Turbine layout (alternative 2)
- OSS

1:70 000



De Rust: WEF South - Protected Areas and Important Bird Areas

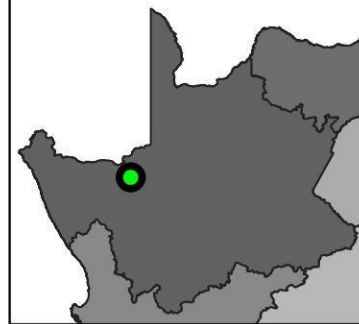


Legend

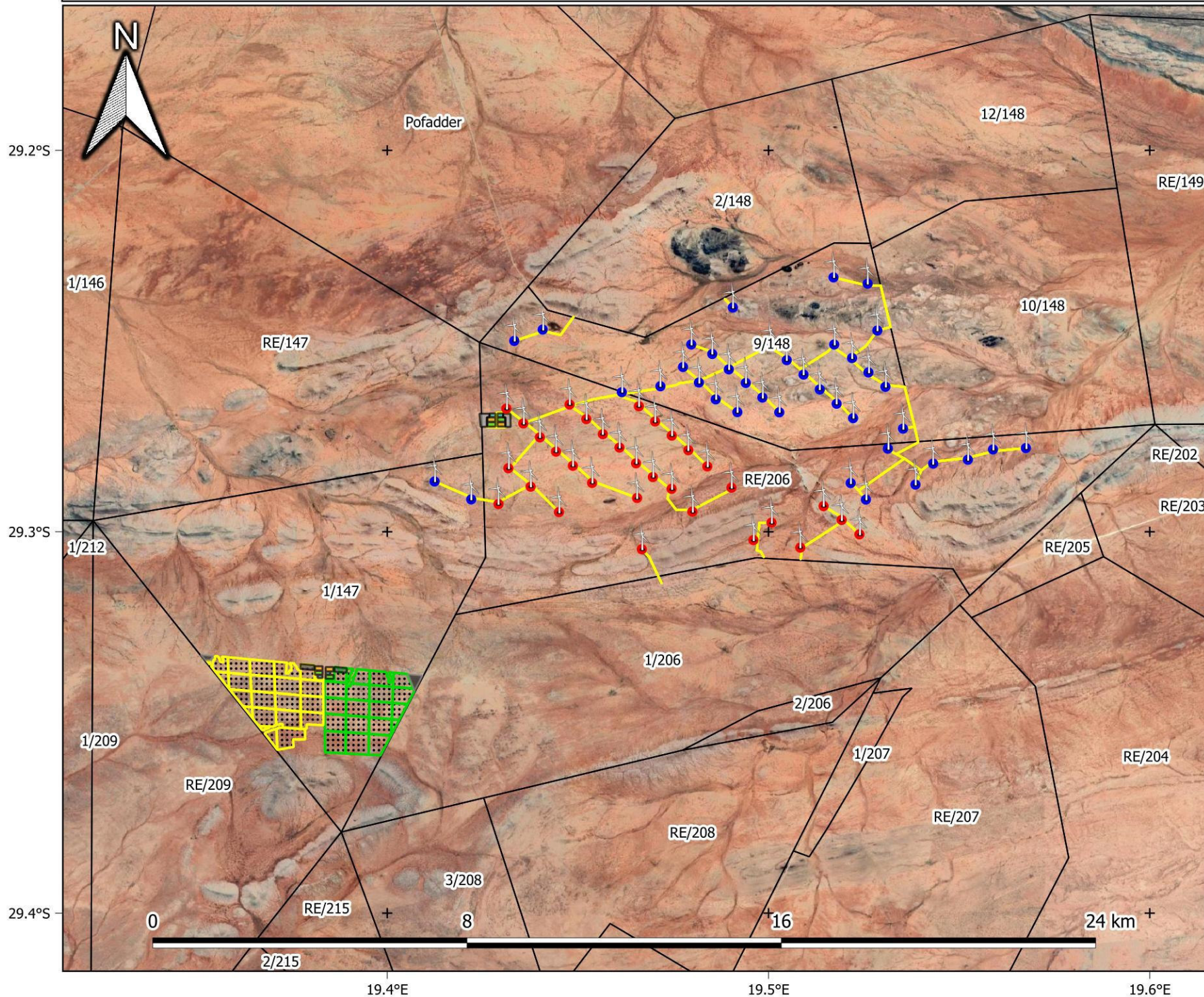
- Farm portions
- IBAs (2015)

1:650 000

Provincial Context



De Rust: Combined Projects and Farm Portions (Alternative 1)



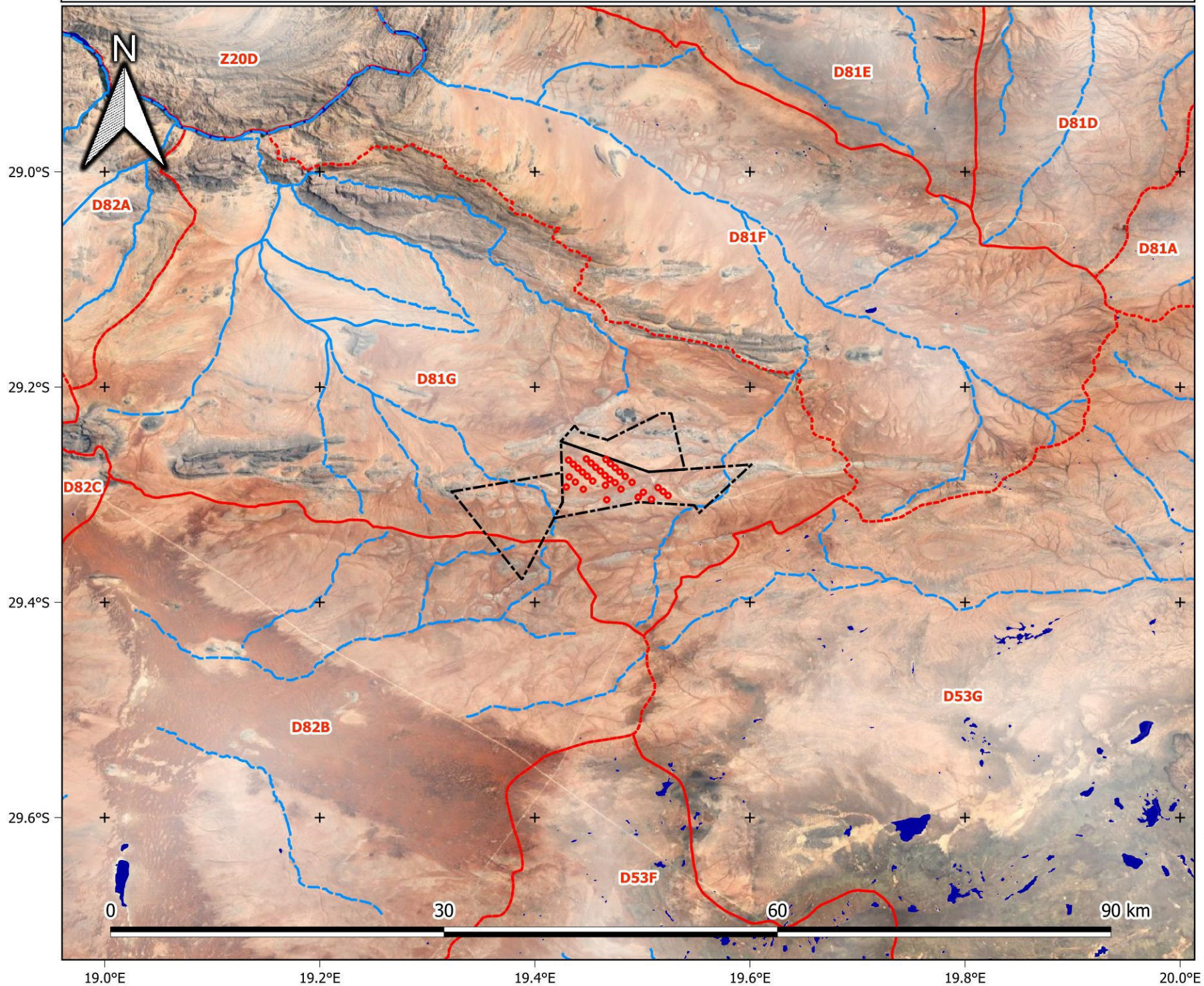
Legend

- North WEF turbines
- South WEF turbines
- Solar PV1
- Solar PV2
- Farm portions
- Accommodation
- Temp. laydown
- Laydown
- BESS
- O&M Building
- OSS 1
- Roads

1:100 000

Provincial Context

De Rust: WEF South - NFEPA and Quaternary Catchments



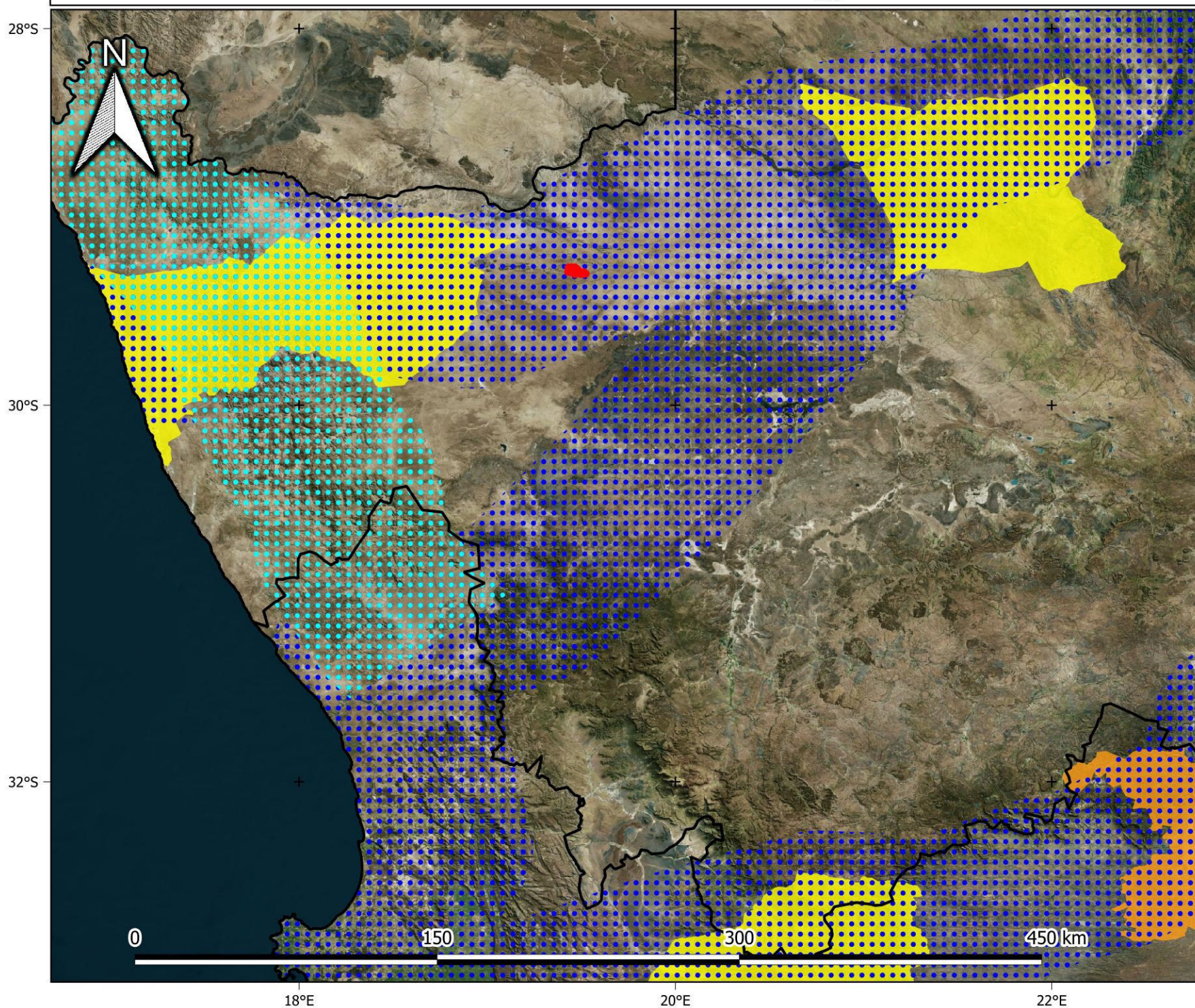
Legend

- Farm portions
- NFEPA rivers
- NFEPA wetlands
- Quaternary catchments

1:350 000

Provincial Context

De Rust: WEF South - REDZ and Energy Corridor



Legend

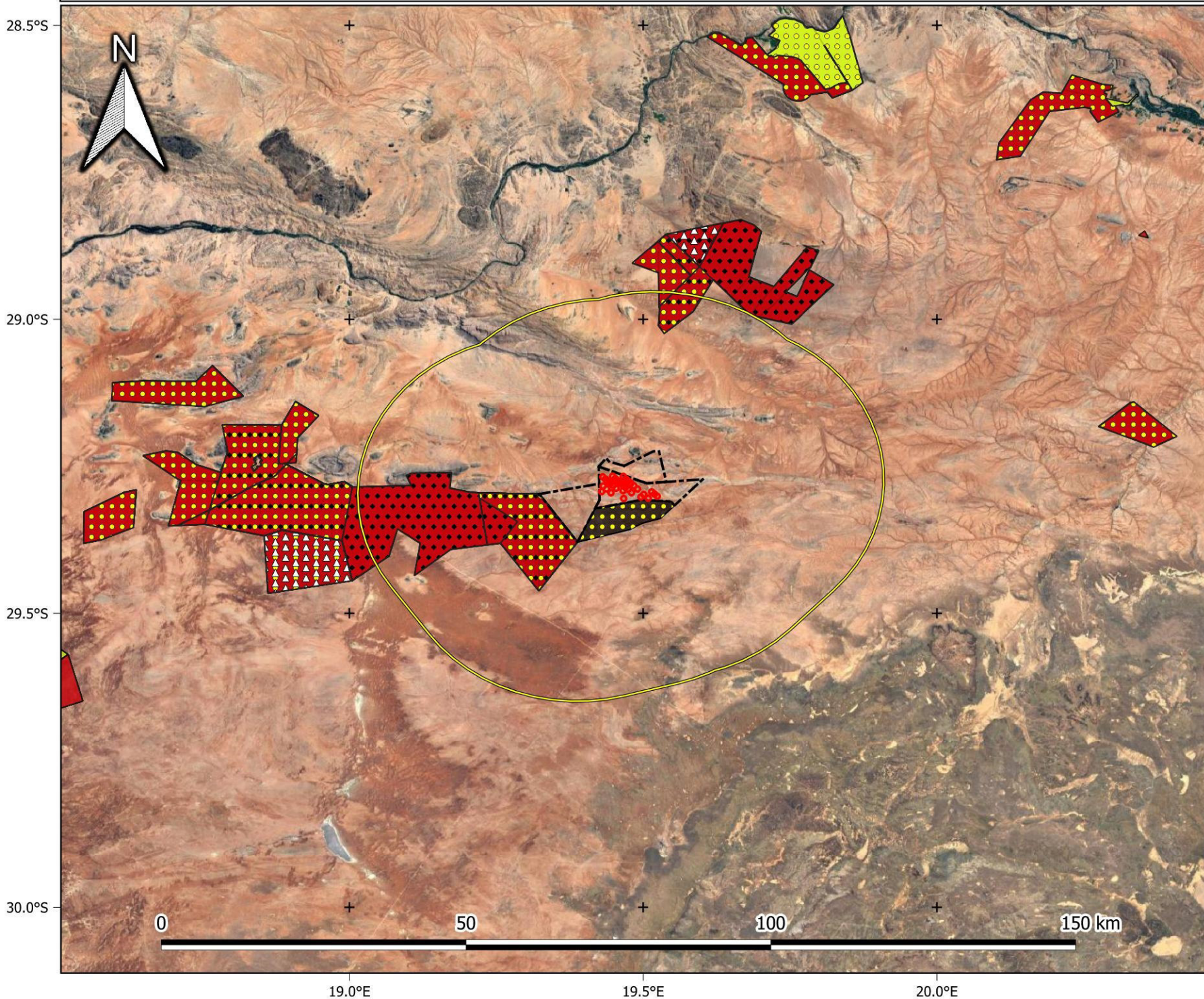
- Turbine layout
- ▭ Provinces
- Strategic transmission corridor
- Expanded transmission corridor
- REDZs phase 2
- REDZs phase 1

1:2 000 000

Provincial Context



De Rust: WEF South - Renewable energy developments in proximity



Legend

- Turbine layout
- ▭ Farm portions

Boundary

- Farm portion 30km buffer

Technology (REEA 2022 Q3)

- ▲▲▲ CSP
- PV
- Wind

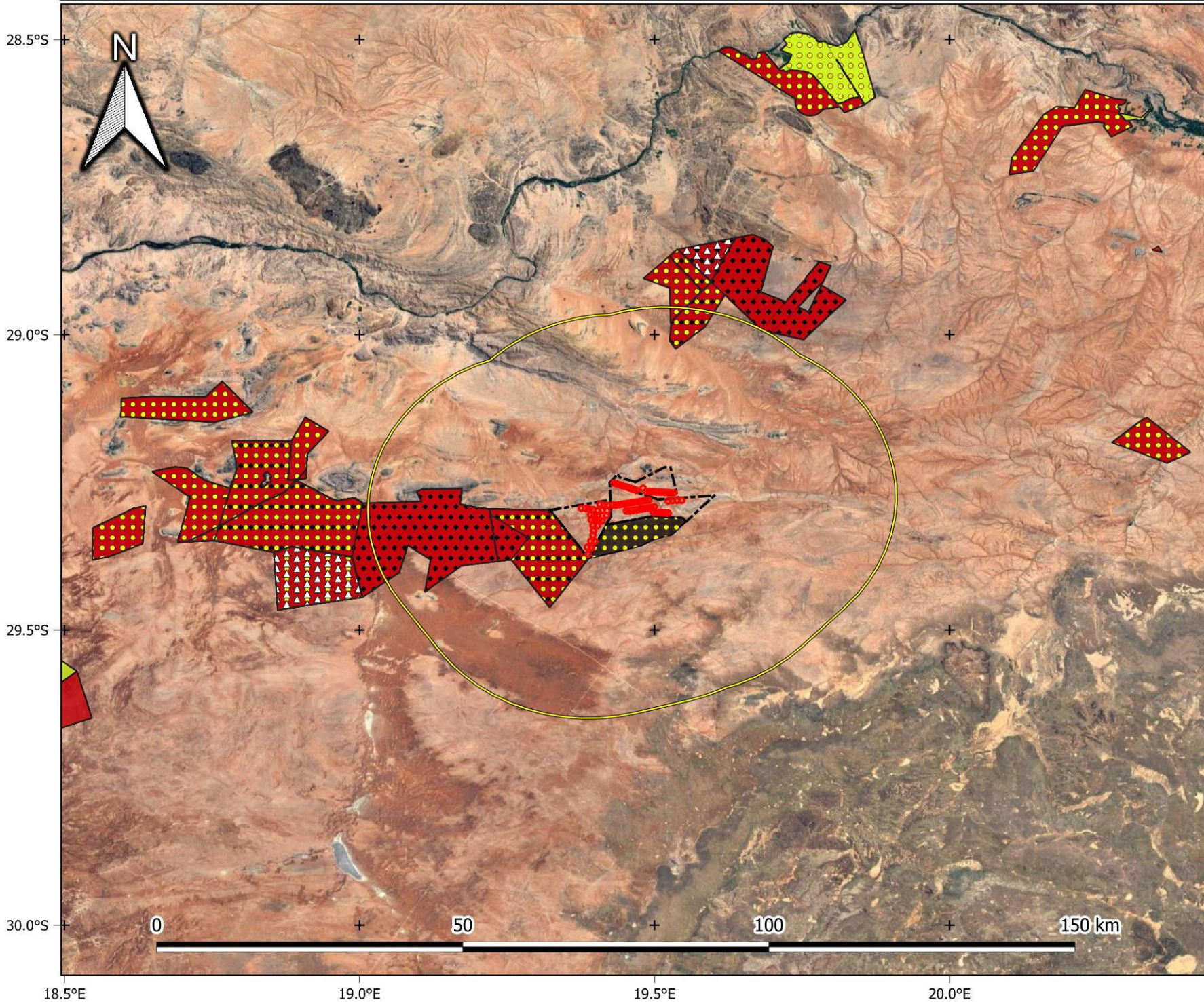
Status (REEA 2022 Q3)

- Approved
- In process
- Houmoed WEF (pre-application)

1:650 000



De Rust: WEF - Renewable energy developments in proximity (Alternative)

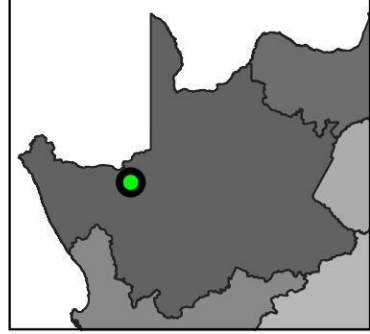


Legend

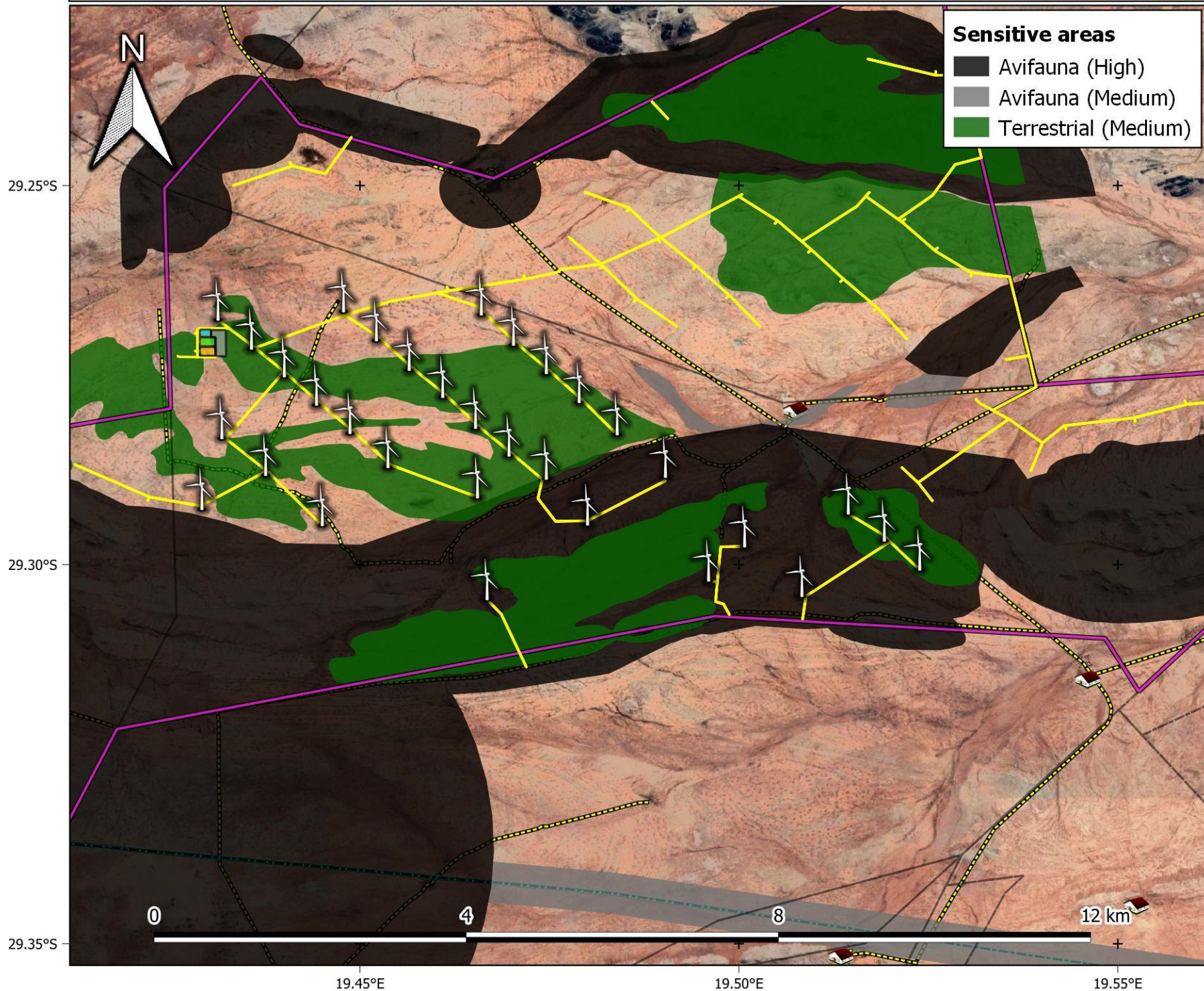
- Turbine layout
 - ▭ Farm portions
 - ▭ Farm portions 30km buffer
- ### Technology (REEA 2022 Q3)
- △△△△ CSP
 - PV
 - Wind
- ### Status (REEA 2022 Q3)
- Approved
 - In process
 - Houmoed WEF (pre-application)

1:650 000

Provincial Context



De Rust: WEF South - Habitat Sensitivity



Sensitive areas

- Avifauna (High)
- Avifauna (Medium)
- Terrestrial (Medium)

Legend

- WEF boundary
- Farm portions

Existing infrastructure

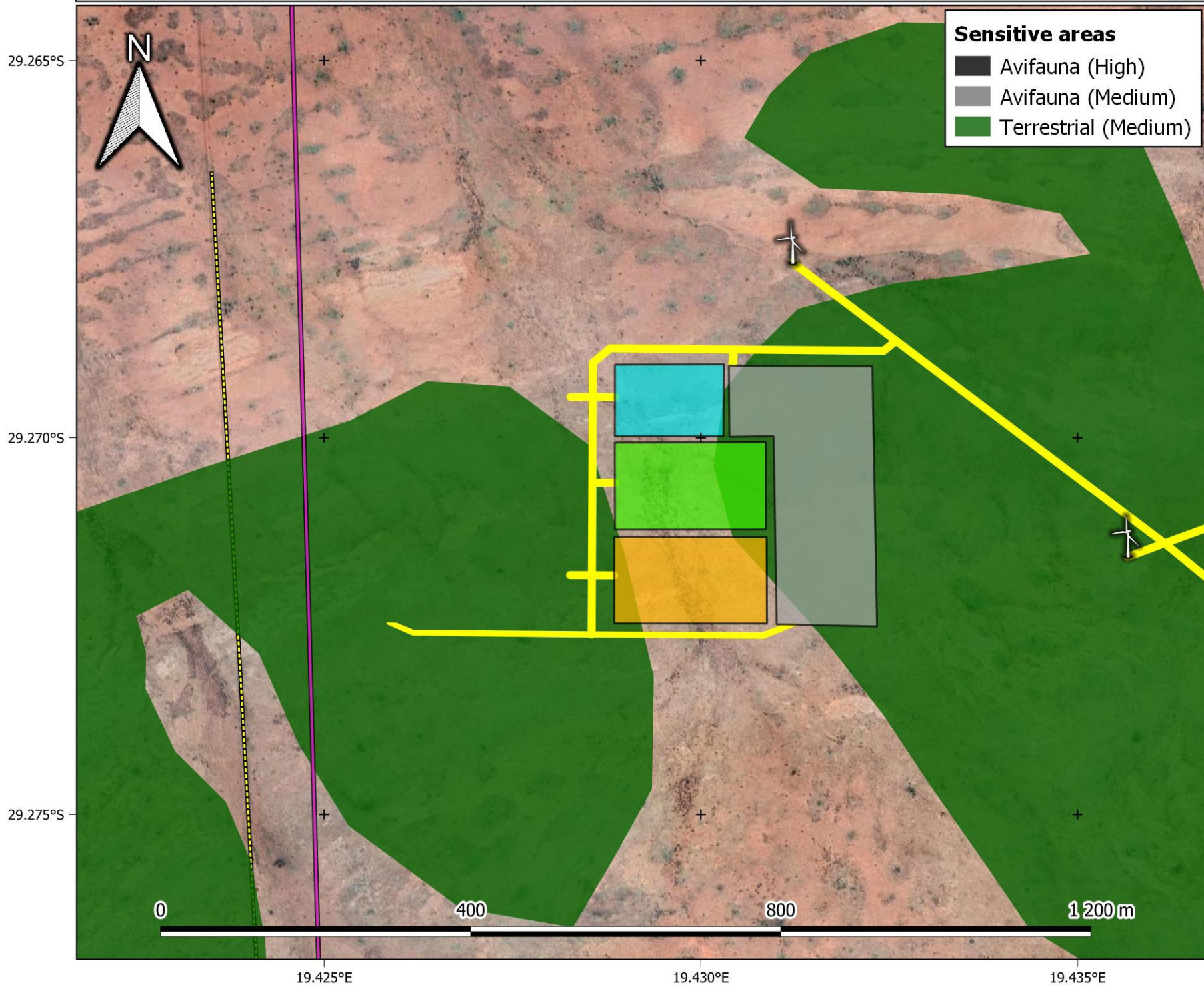
- 🏠 Farm houses
- OH powerlines
- Roads

Proposed infrastructure

- 🌪 Turbine layout (alternative 1)
- Laydown area
- Roads
- BESS
- O&M building
- OSS 1:50 000



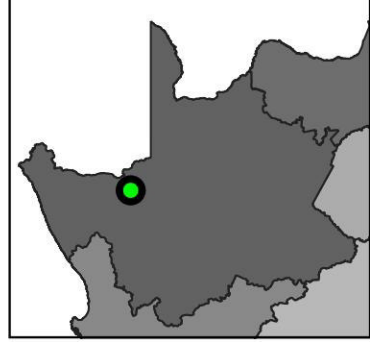
De Rust: WEF South - Habitat Sensitivity



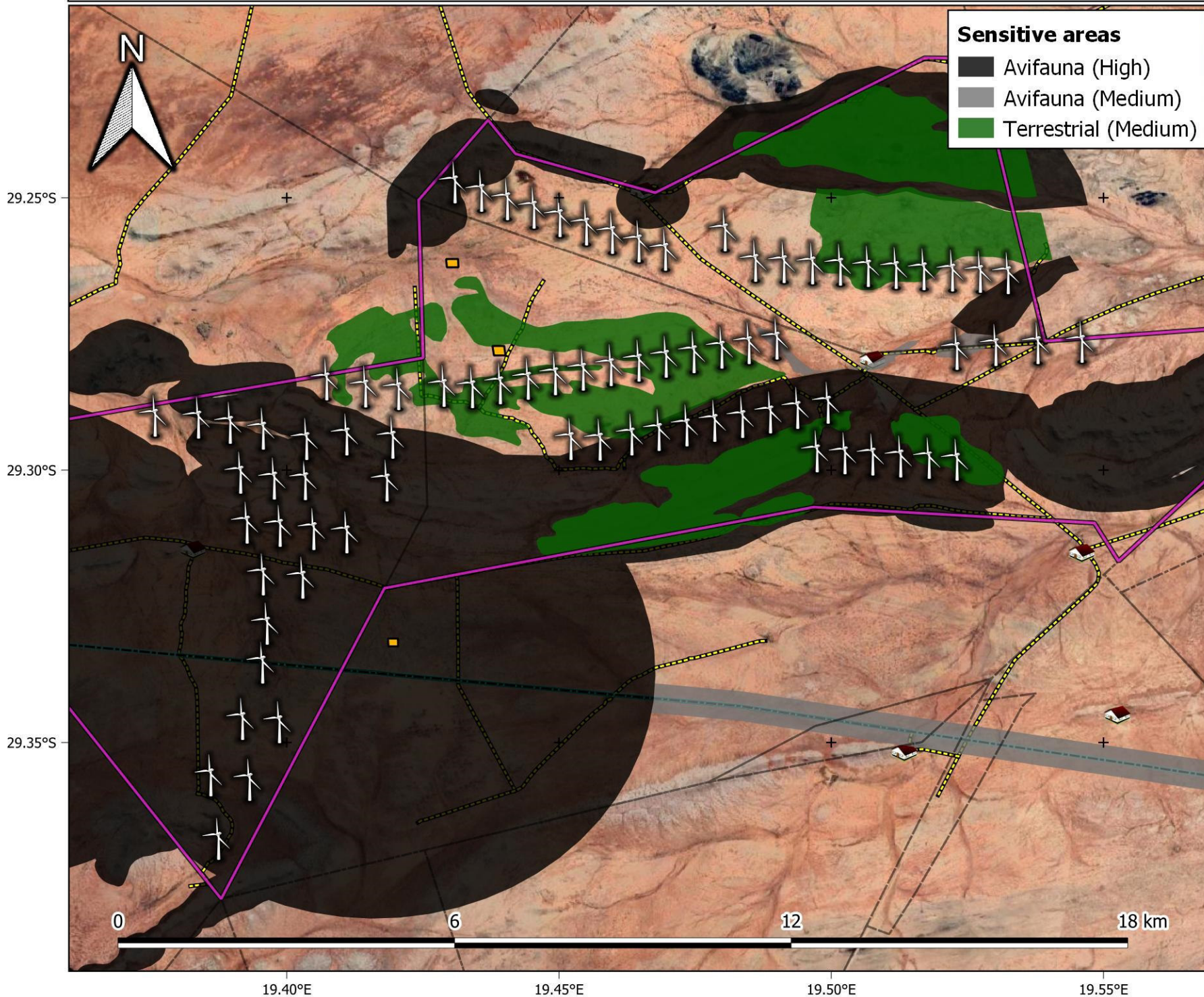
Legend

- WEF boundary
 - Farm portions
- Existing infrastructure**
- Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
- Turbine layout (alternative 1)
 - Laydown area
 - Roads
 - BESS
 - O&M building
 - OSS 1:5 000

Provincial Context



De Rust: WEF - Habitat Sensitivity (Alternative Layout)



Sensitive areas

- Avifauna (High)
- Avifauna (Medium)
- Terrestrial (Medium)

Legend

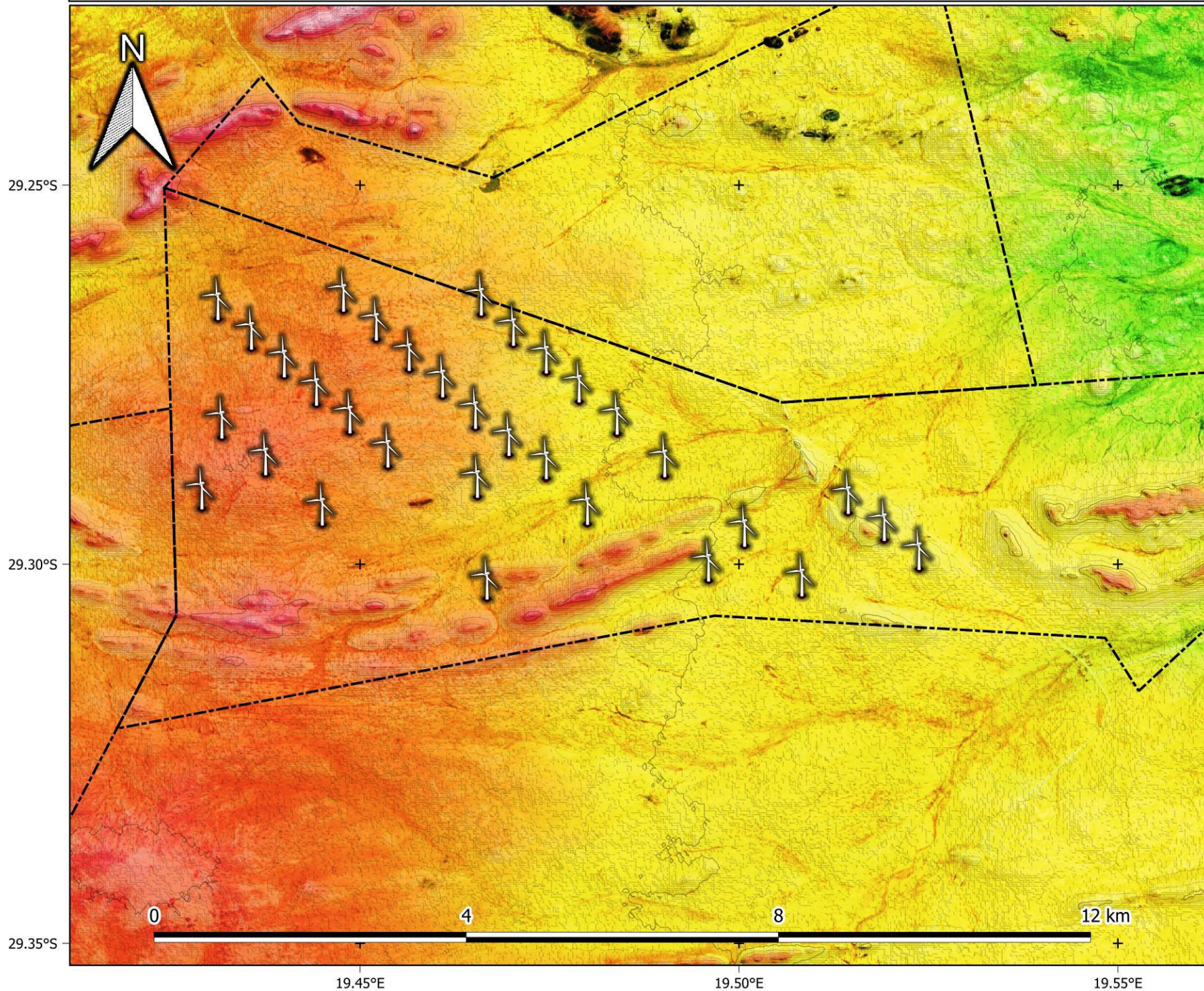
- WEF boundary
- Farm portions
- Existing infrastructure**
 - Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
 - Turbine layout (alternative 2)
 - OSS

1:70 000

Provincial Context

EnviroINSIGHT
environmental impact assessments

De Rust: WEF South - Topography



Legend

- Turbine layout
- Farm portions

Contours

- 10 m
- 50 m

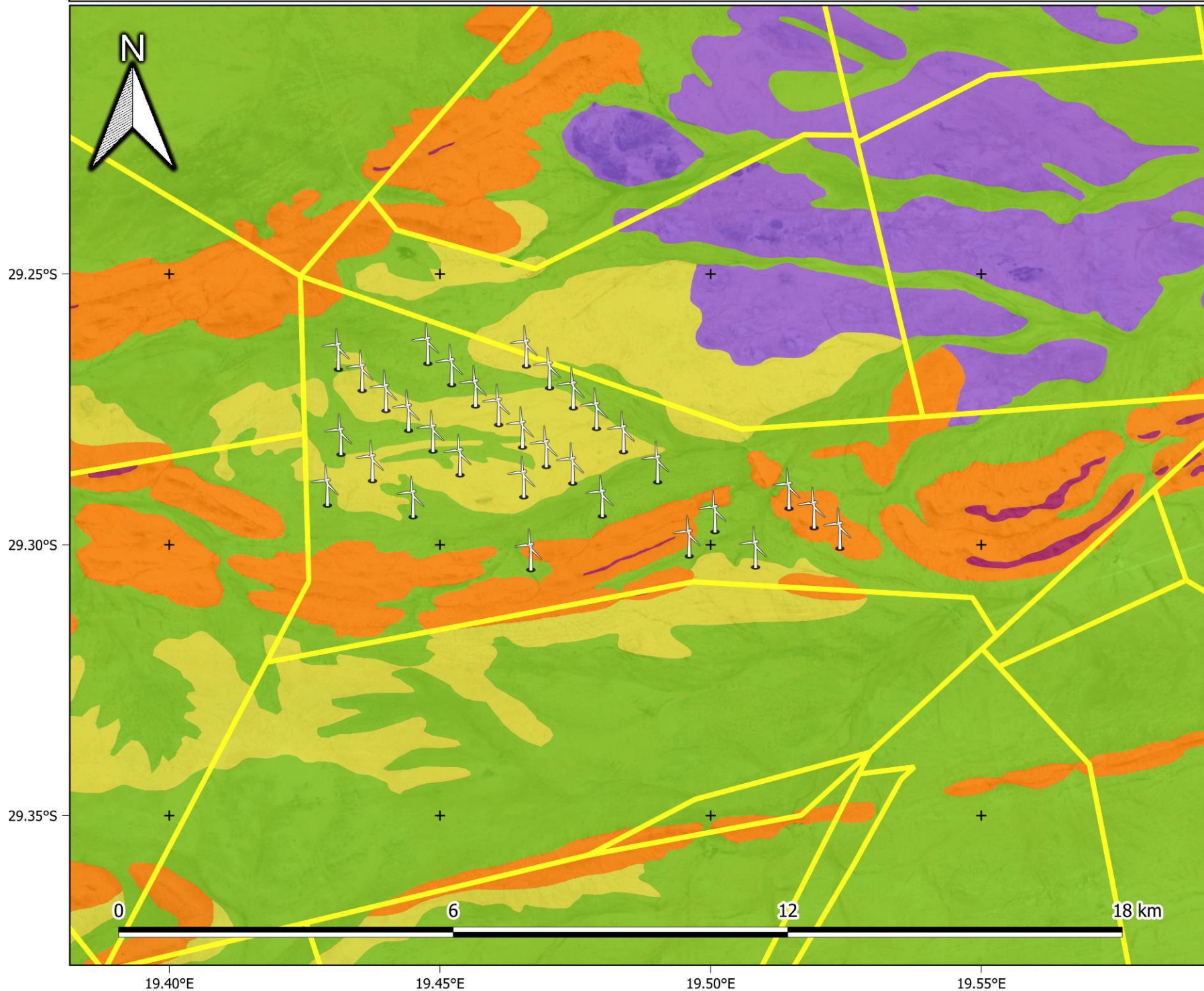
Elevation (masl)

- 950
- 1000
- 1022
- 1046
- 1077
- 1111
- 1130

1:50 000

Provincial Context

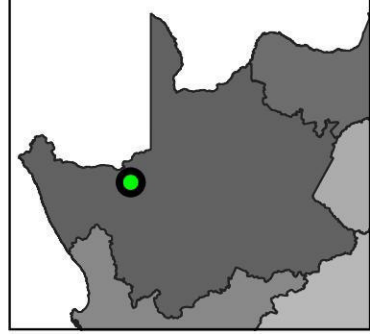
De Rust: WEF South - Vegetation



Legend

-  Turbine layout
 -  Farm portions
 - VegMap (2018)**
 -  Aggeneys Gravel Vygieveld
 -  Bushmanland Arid Grassland
 -  Bushmanland Basin Shrubland
 -  Bushmanland Inselberg Shrubland
 -  Namaqualand Klipkoppe Shrubland
- 1:70 000

Provincial Context



Appendix A2:

Photographs



Appendix A:

Mapping and Photographs

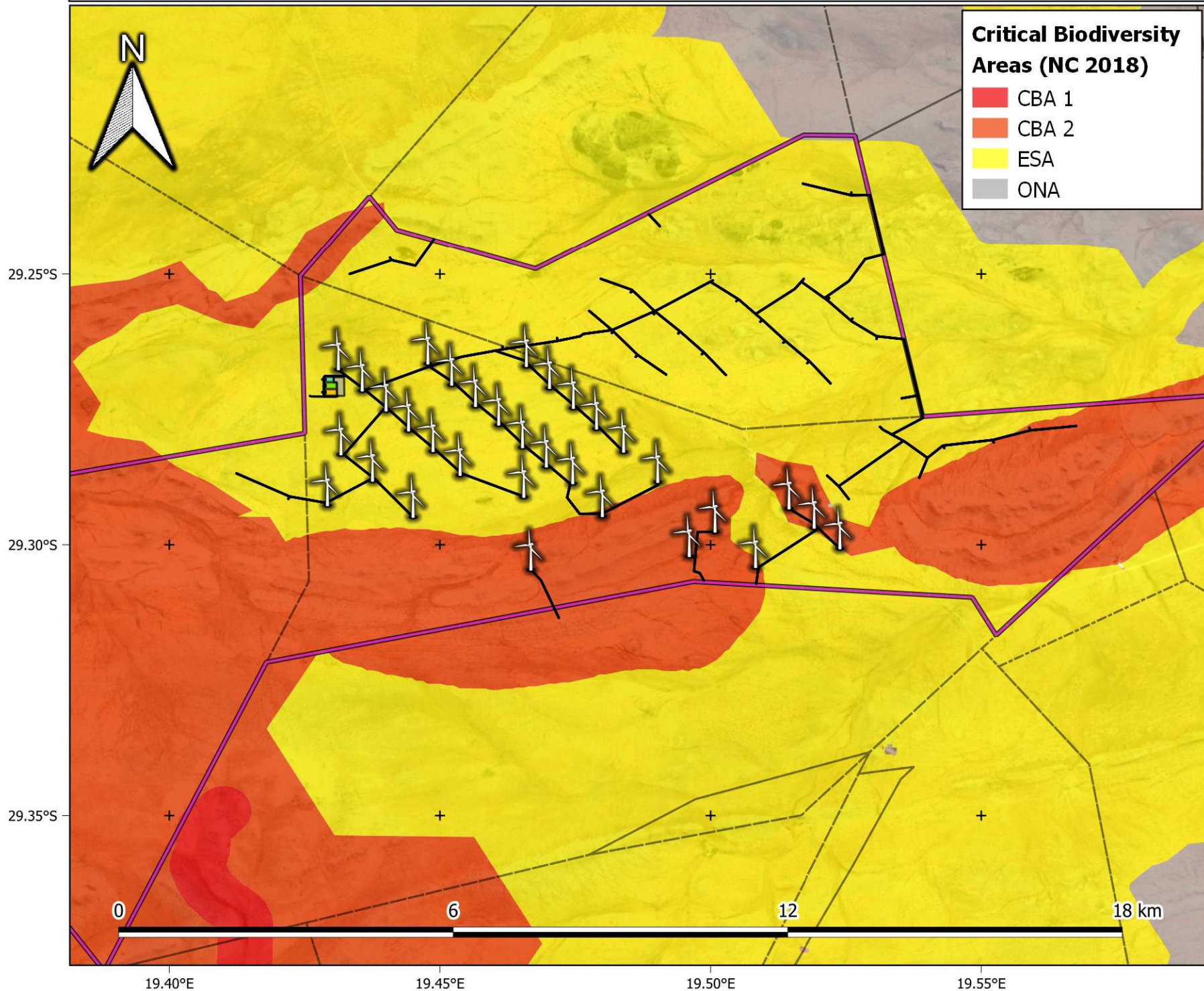


Appendix A1:

Mapping



De Rust: WEF South - Critical Biodiversity Areas



Critical Biodiversity Areas (NC 2018)

- CBA 1
- CBA 2
- ESA
- ONA

Legend

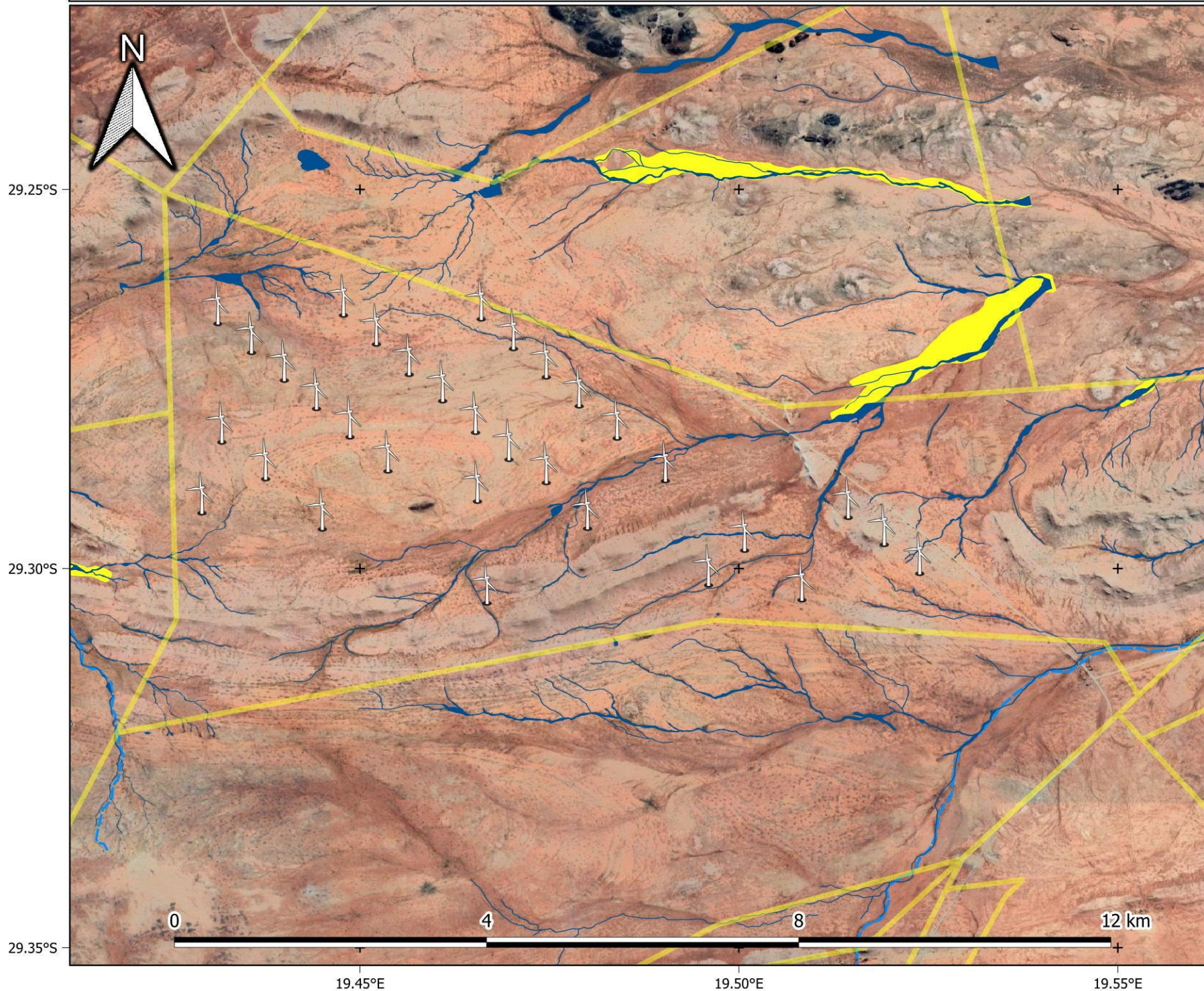
- WEF boundary
- Farm portions
- Proposed infrastructure**
- Turbine layout (alternative 1)
- Laydown area
- BESS
- O&M building
- OSS
- Roads

1:70 000

Provincial Context

EnviroINSIGHT
environmental impact assessments

De Rust: WEF South - Hydrology



Legend

- Turbine layout
- Farm portions
- Aquatic ecologist's delineations**
 - Watercourses
 - Alluvial plains
- NFEPA (2012)**
 - Rivers
 - Wetlands

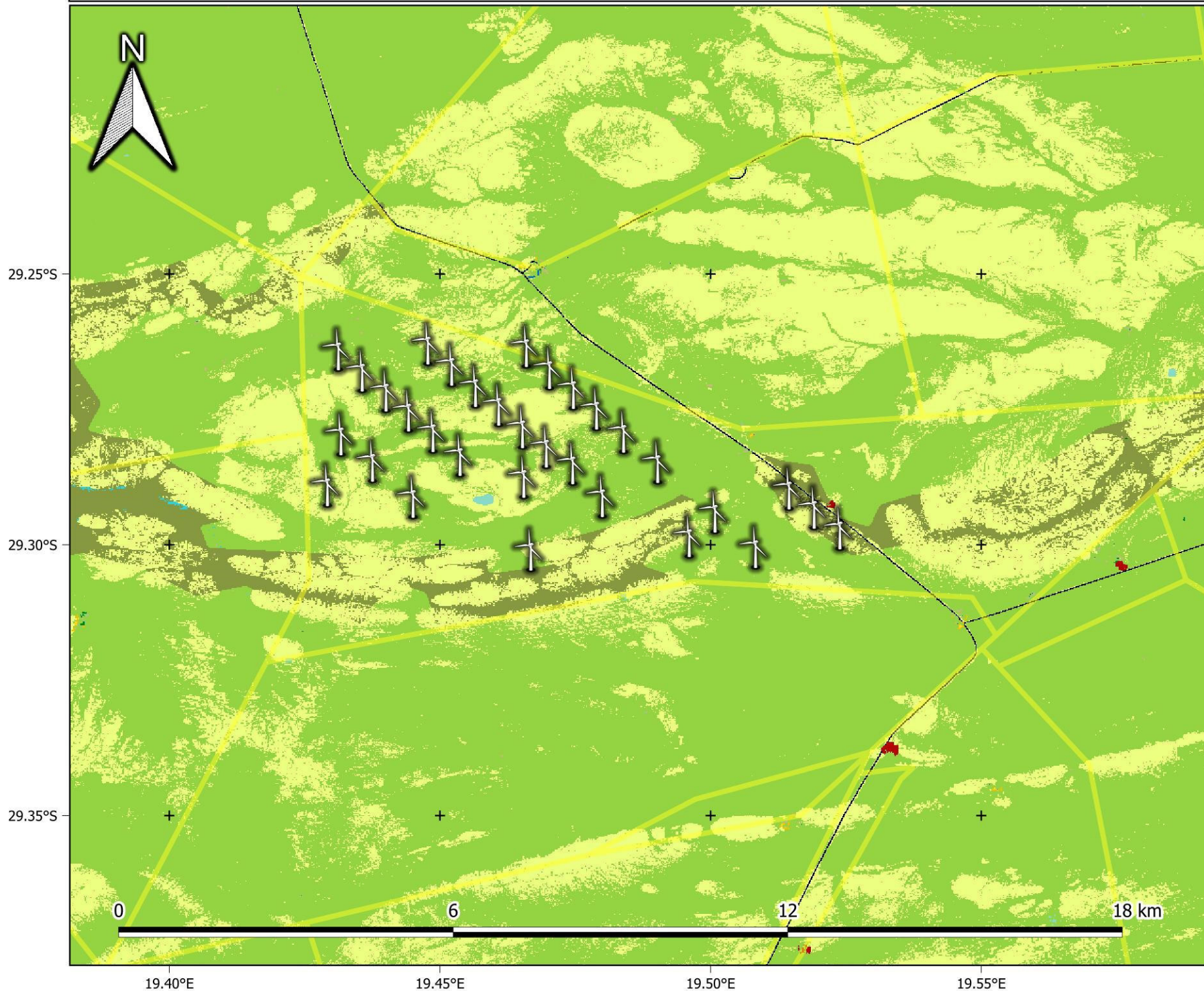
1:50 000

Provincial Context

A map of South Africa showing provincial boundaries. A green dot is placed in the Western Cape province to indicate the location of the De Rust project area.

EnviroINSIGHT
environmental impact assessments

De Rust: WEF South - Land Cover



Legend

- Turbine layout
- Farm portions

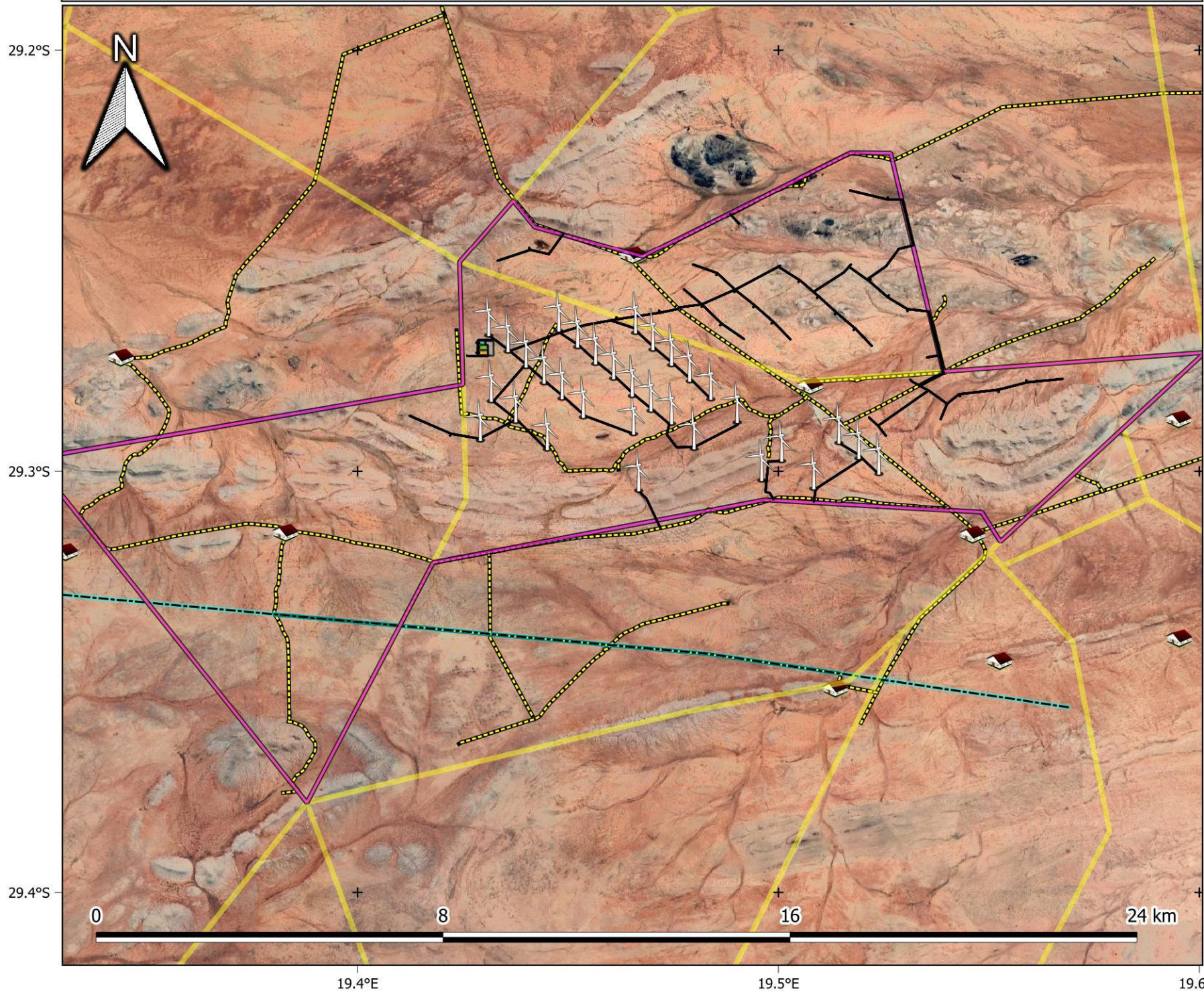
National Land Cover (SA NLC 2018)

- Low Shrubland (other regions)
- Low Shrubland (Succulent Karoo)
- Low Shrubland (Nama Karoo)
- Dry Pans
- Bare Riverbed Material
- Bare Ground
- Roads and Rail
- Mines

1:70 000

Provincial Context

De Rust: WEF South - Layout

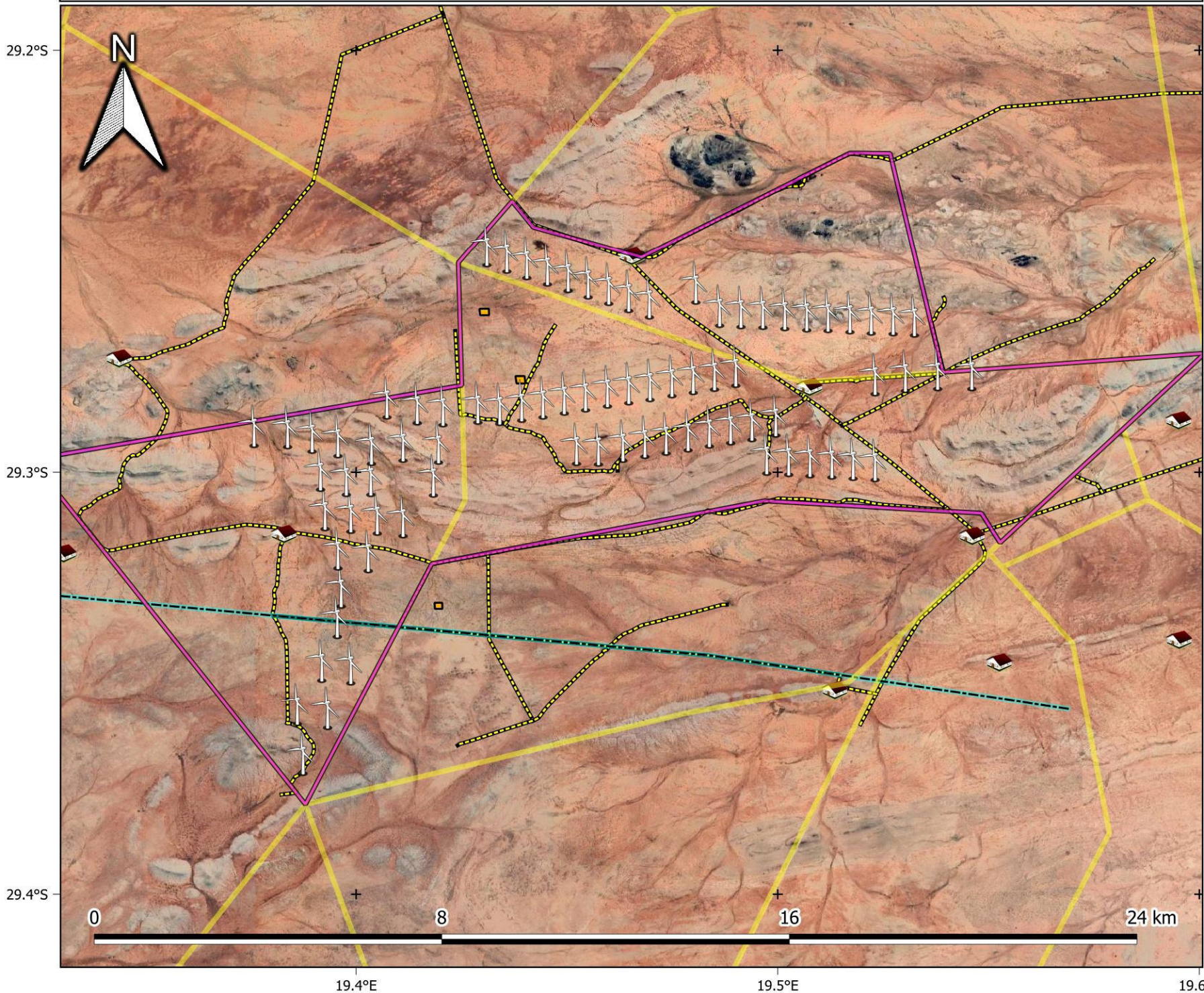


Legend

- WEF boundary
- Parent farms
- Existing infrastructure**
 - Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
 - Turbine layout (alternative 1)
 - Laydown area
 - Roads
 - BESS
 - O&M building
 - OSS 1:90 000



De Rust: WEF - Layout (Alternative 2)



Legend

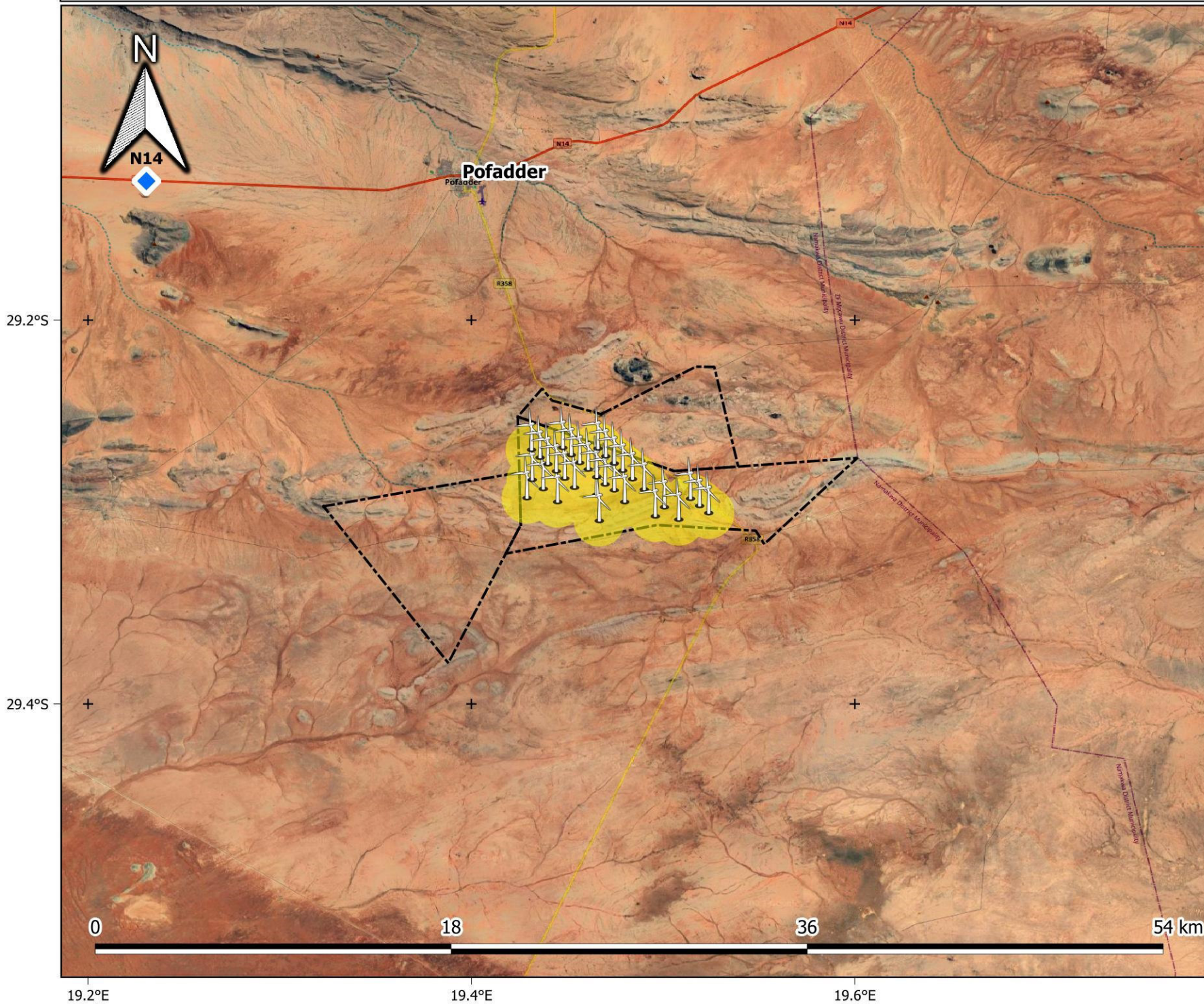
- WEF boundary
- Parent farms
- Existing infrastructure**
 - Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
 - Turbine layout (alternative 2)
 - OSS

1:90 000

Provincial Context

EnviroINSIGHT
environmental impact assessments

De Rust: WEF South - Aerial



Legend

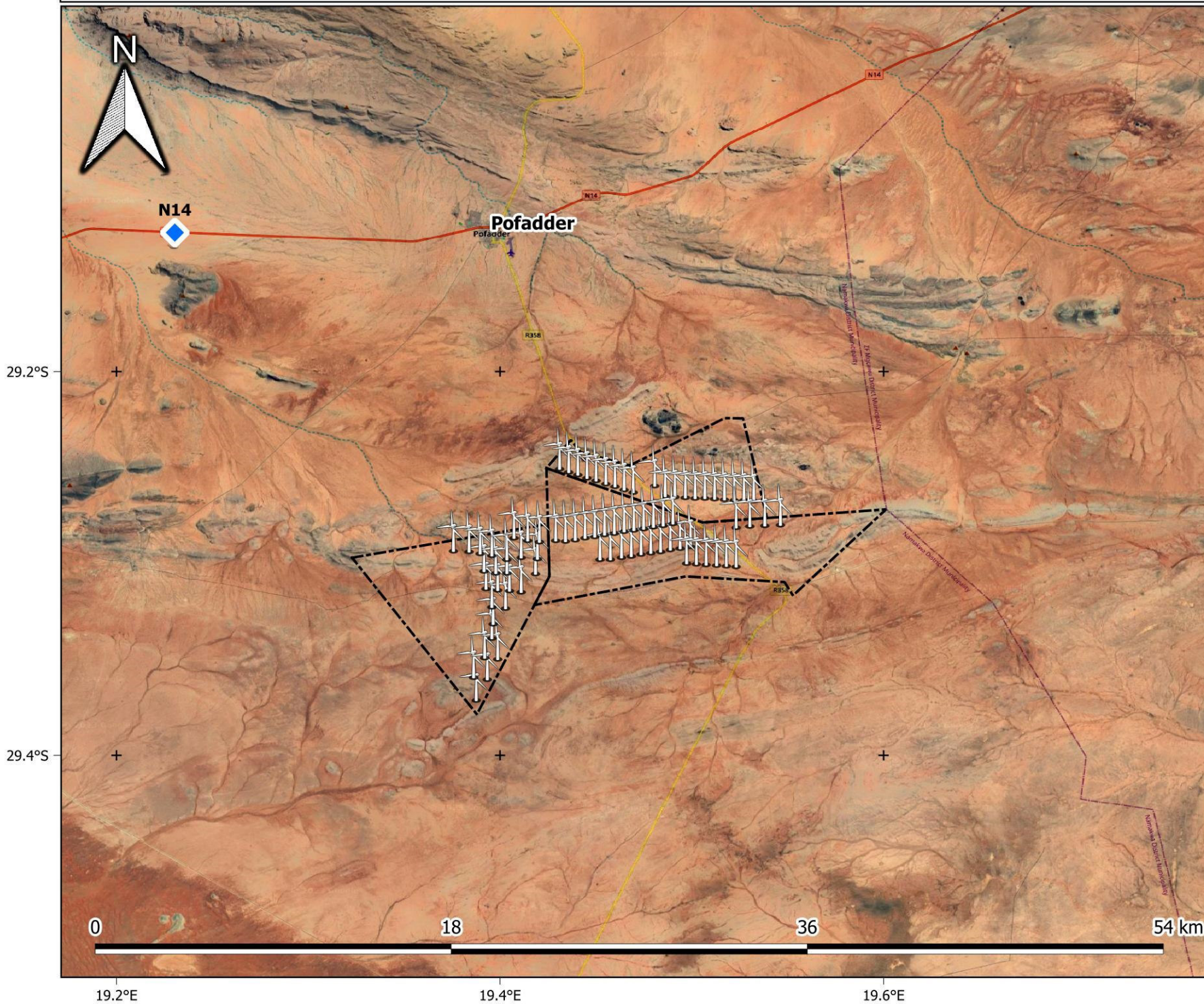
-  Turbine layout South
-  Farm portions

1:200 000



Provincial Context



De Rust: WEF - Alternative Aerial (Location)

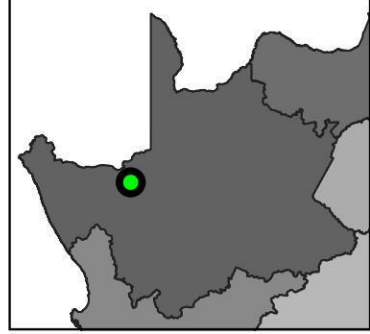


Legend

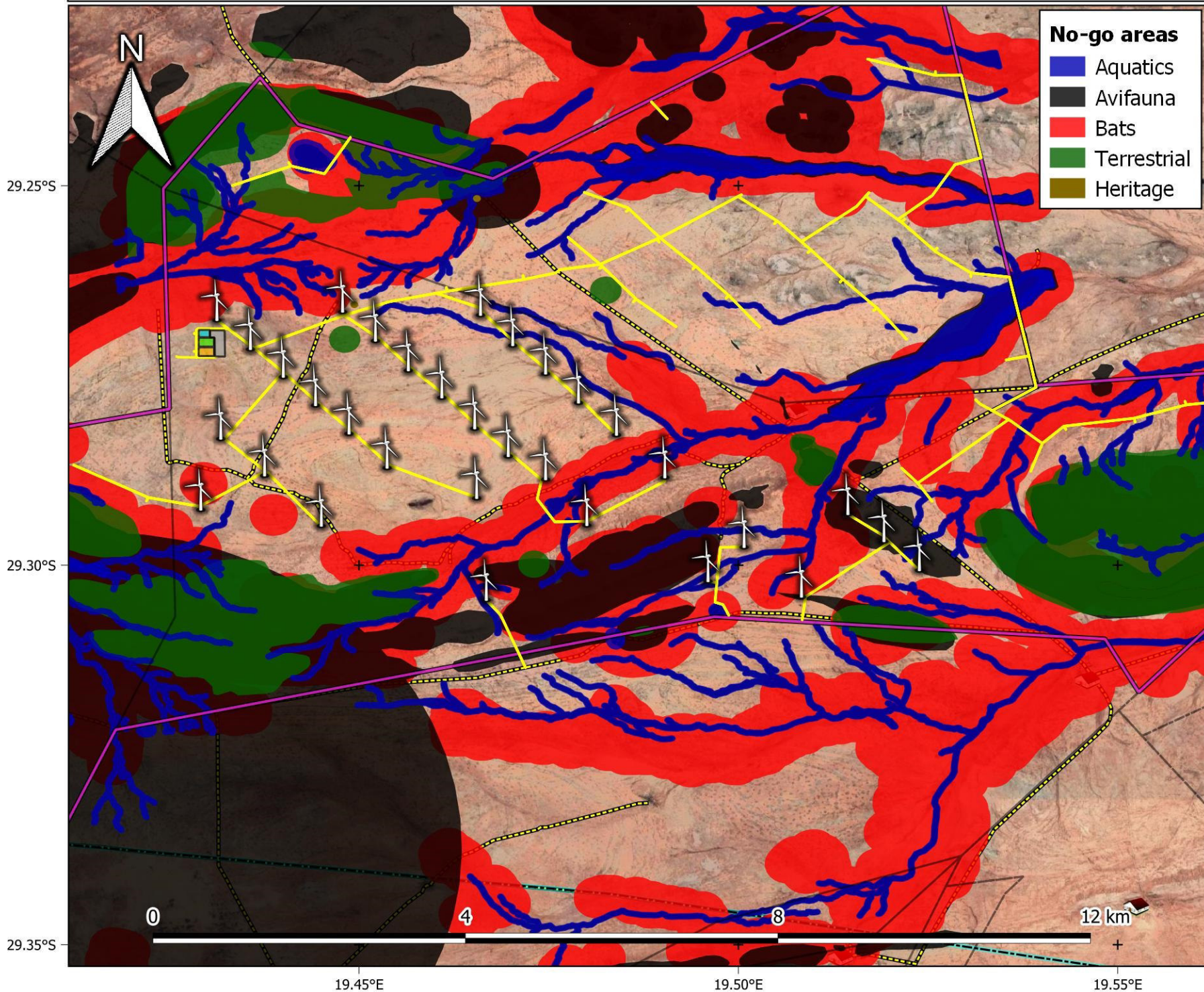
-  Turbine layout
-  Farm portions

1:200 000

Provincial Context



De Rust: WEF South - No-Go Areas

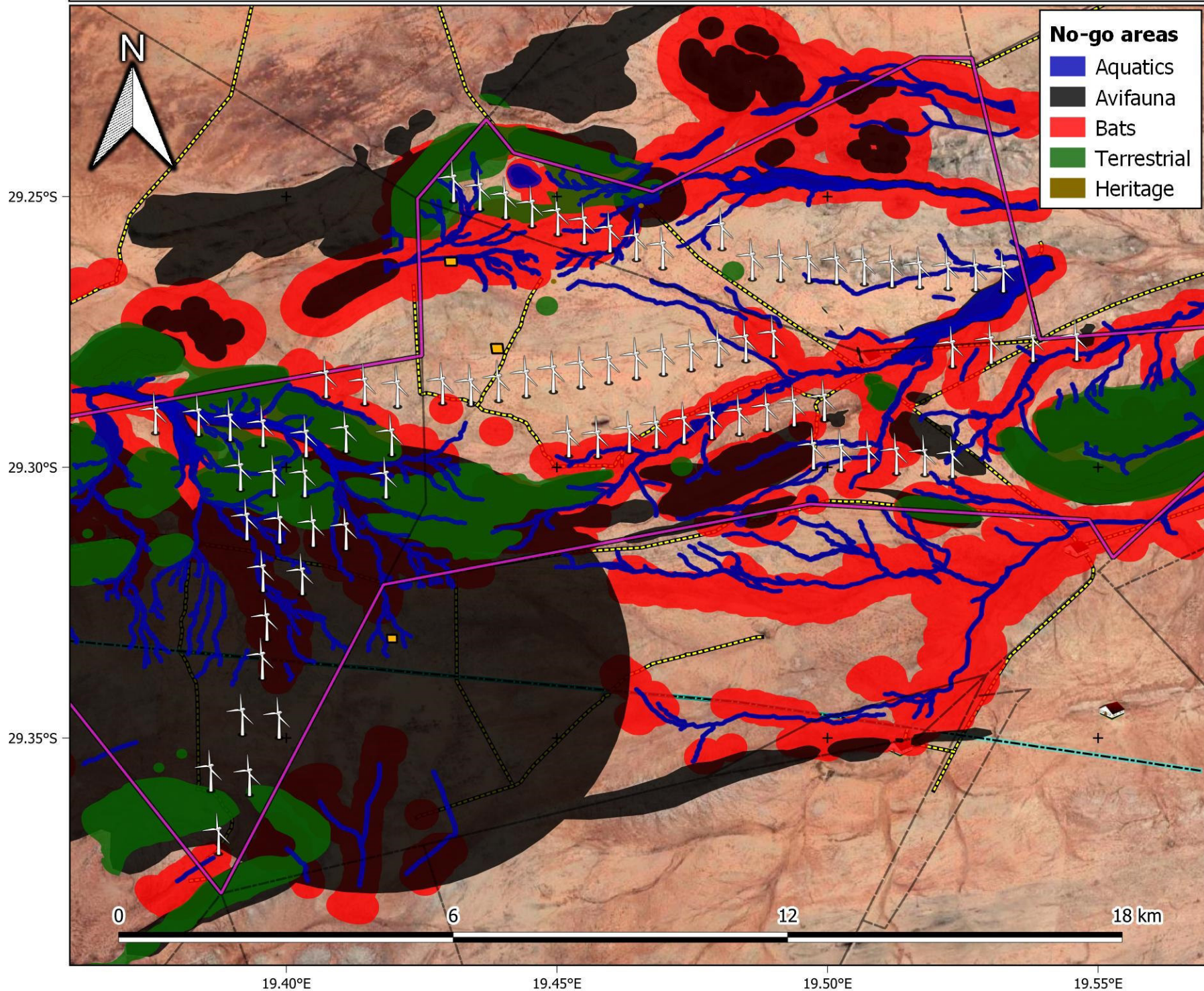


- No-go areas**
- Aquatics
 - Avifauna
 - Bats
 - Terrestrial
 - Heritage

- Legend**
- WEF boundary
 - Farm portions
- Existing infrastructure**
- Farm houses
 - - - OH powerlines
 - - - Roads
- Proposed infrastructure**
- Turbine layout (alternative 1)
 - Laydown area
 - Roads
 - BESS
 - O&M building
 - OSS 1:50 000



De Rust: WEF - No-Go Areas (Alternative Layout)



- No-go areas**
- Aquatics
 - Avifauna
 - Bats
 - Terrestrial
 - Heritage

Legend

- WEF boundary
- Farm portions

Existing infrastructure

- Farm houses
- — — OH powerlines
- — — Roads

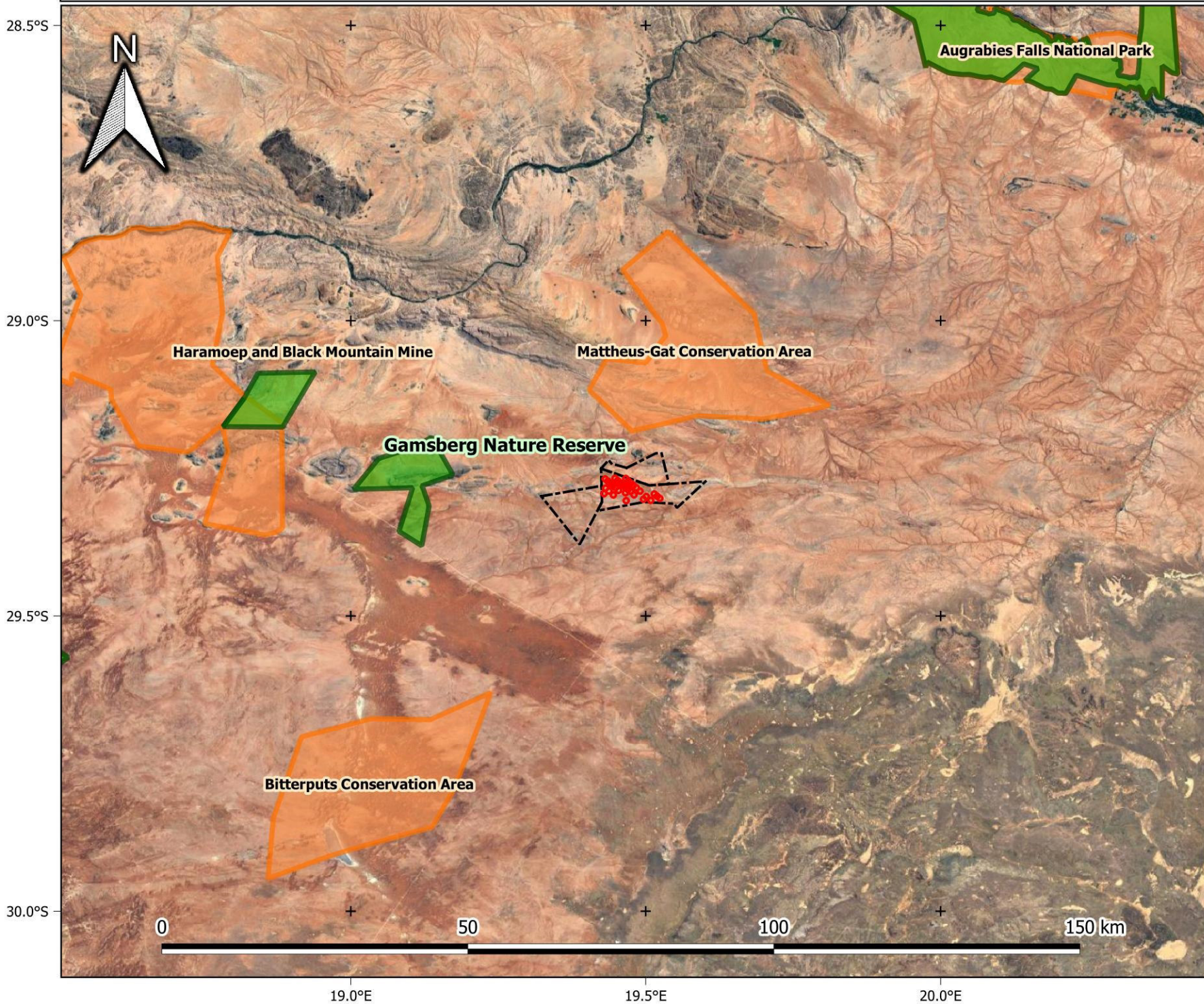
Proposed infrastructure

- Turbine layout (alternative 2)
- OSS

1:70 000



De Rust: WEF South - Protected Areas and Important Bird Areas

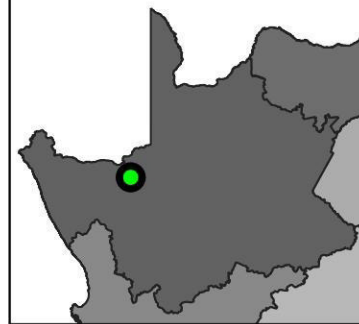


Legend

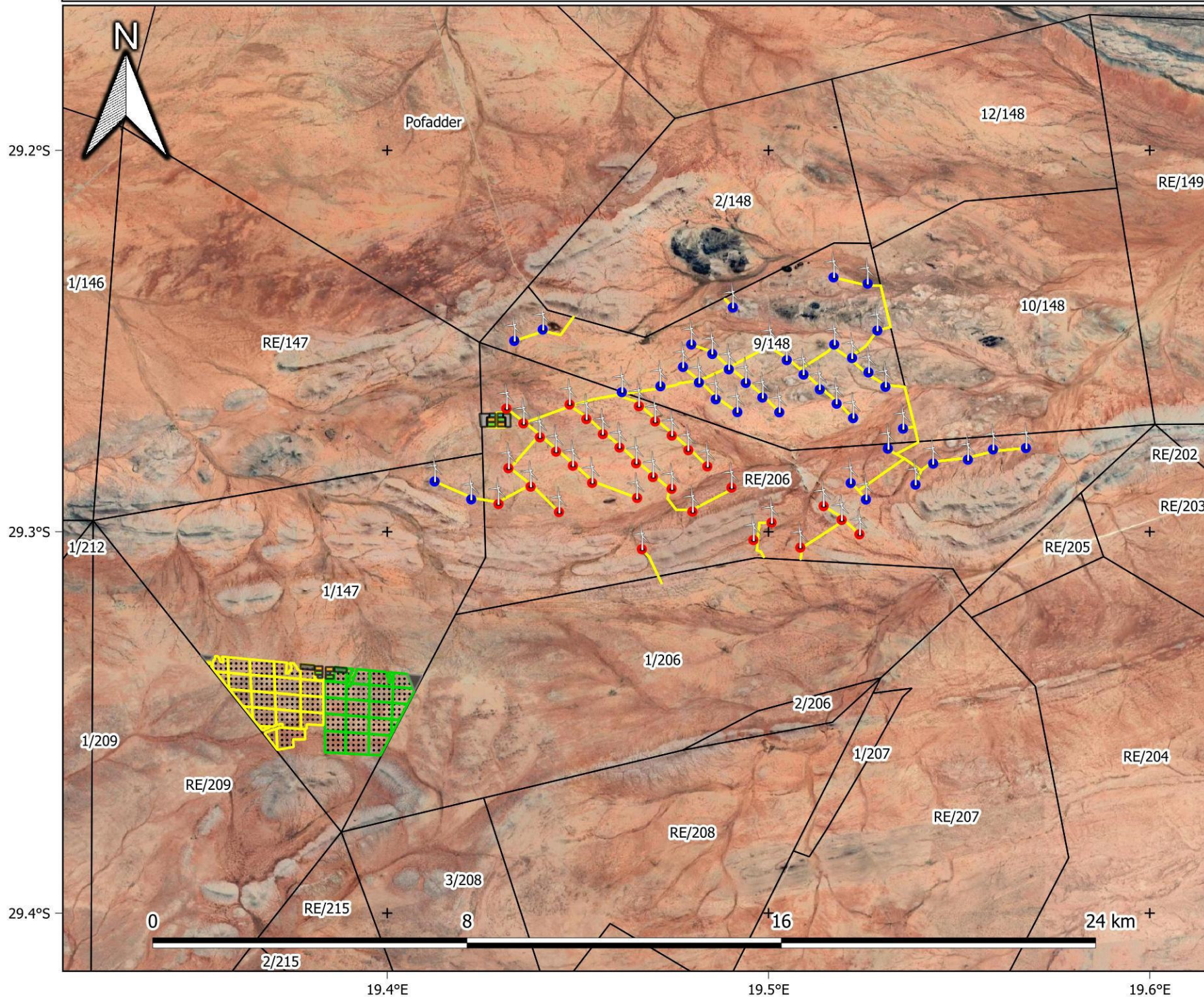
- Farm portions
- IBAs (2015)

1:650 000

Provincial Context



De Rust: Combined Projects and Farm Portions (Alternative 1)



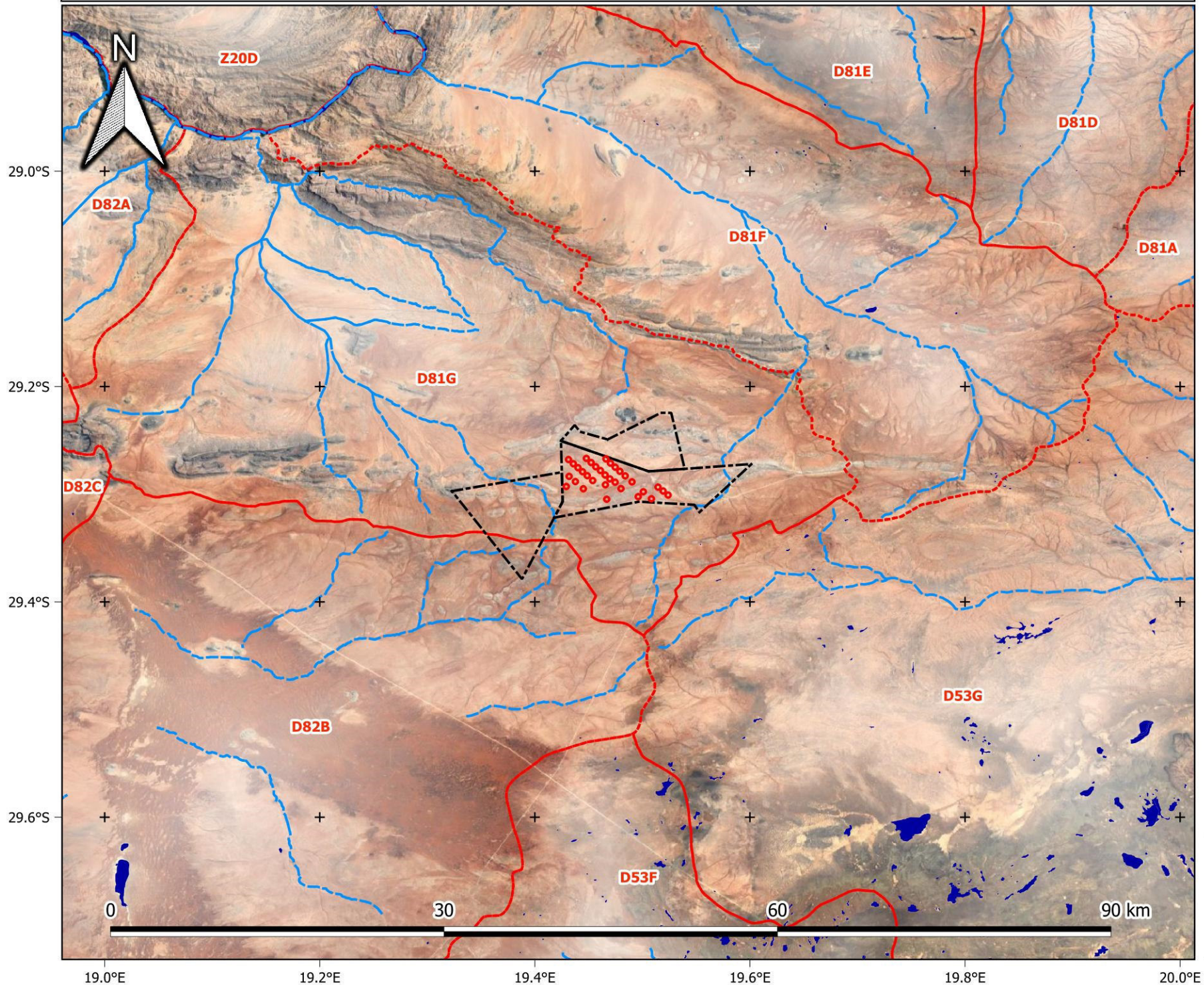
Legend

- North WEF turbines
- South WEF turbines
- Solar PV1
- Solar PV2
- Farm portions
- Accommodation
- Temp. laydown
- Laydown
- BESS
- O&M Building
- OSS 1
- Roads

1:100 000

Provincial Context

De Rust: WEF South - NFEPA and Quaternary Catchments



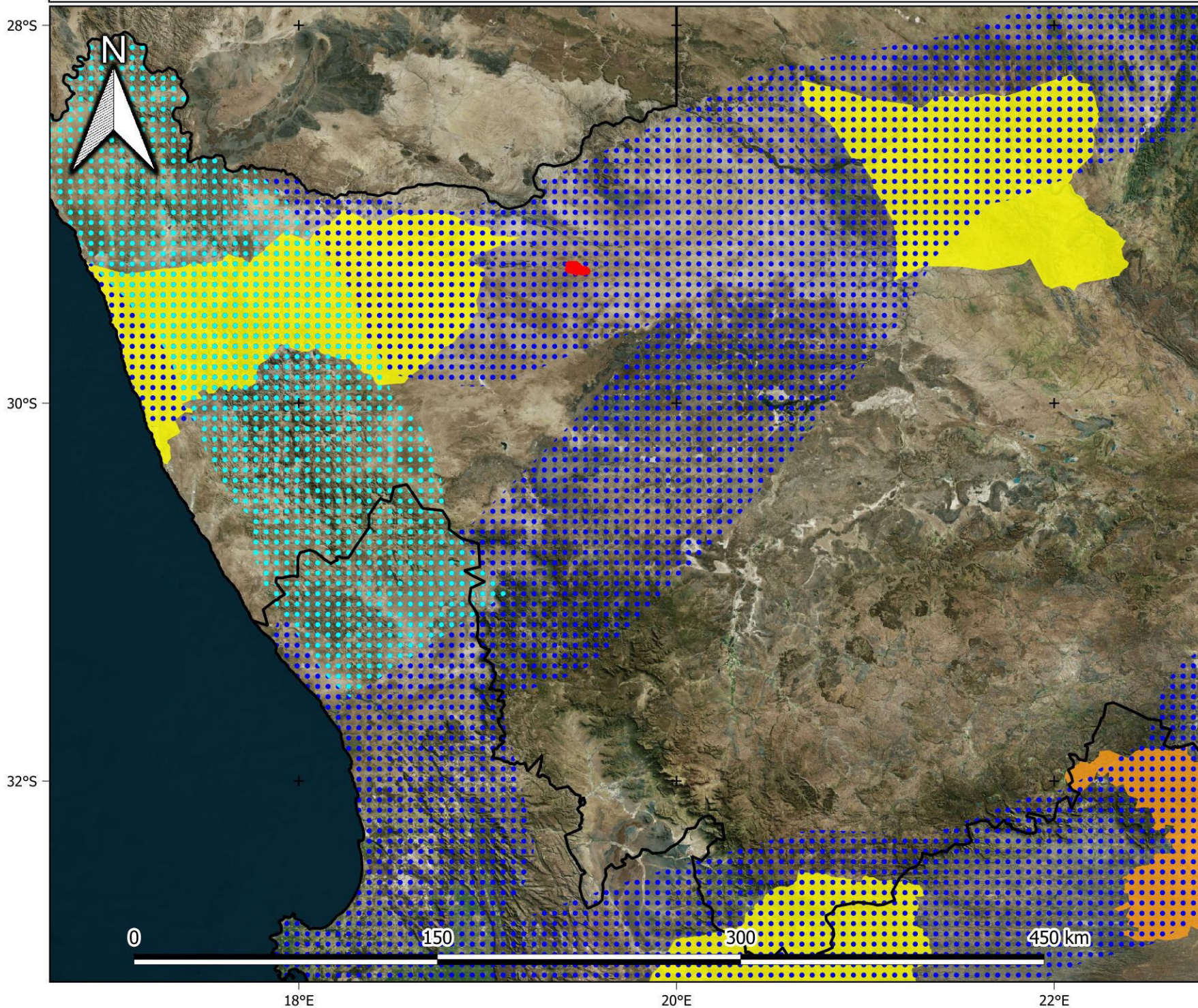
Legend

- Farm portions
- NFEPA rivers
- NFEPA wetlands
- Quaternary catchments

1:350 000

Provincial Context

De Rust: WEF South - REDZ and Energy Corridor

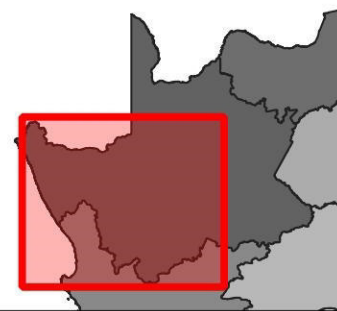


Legend

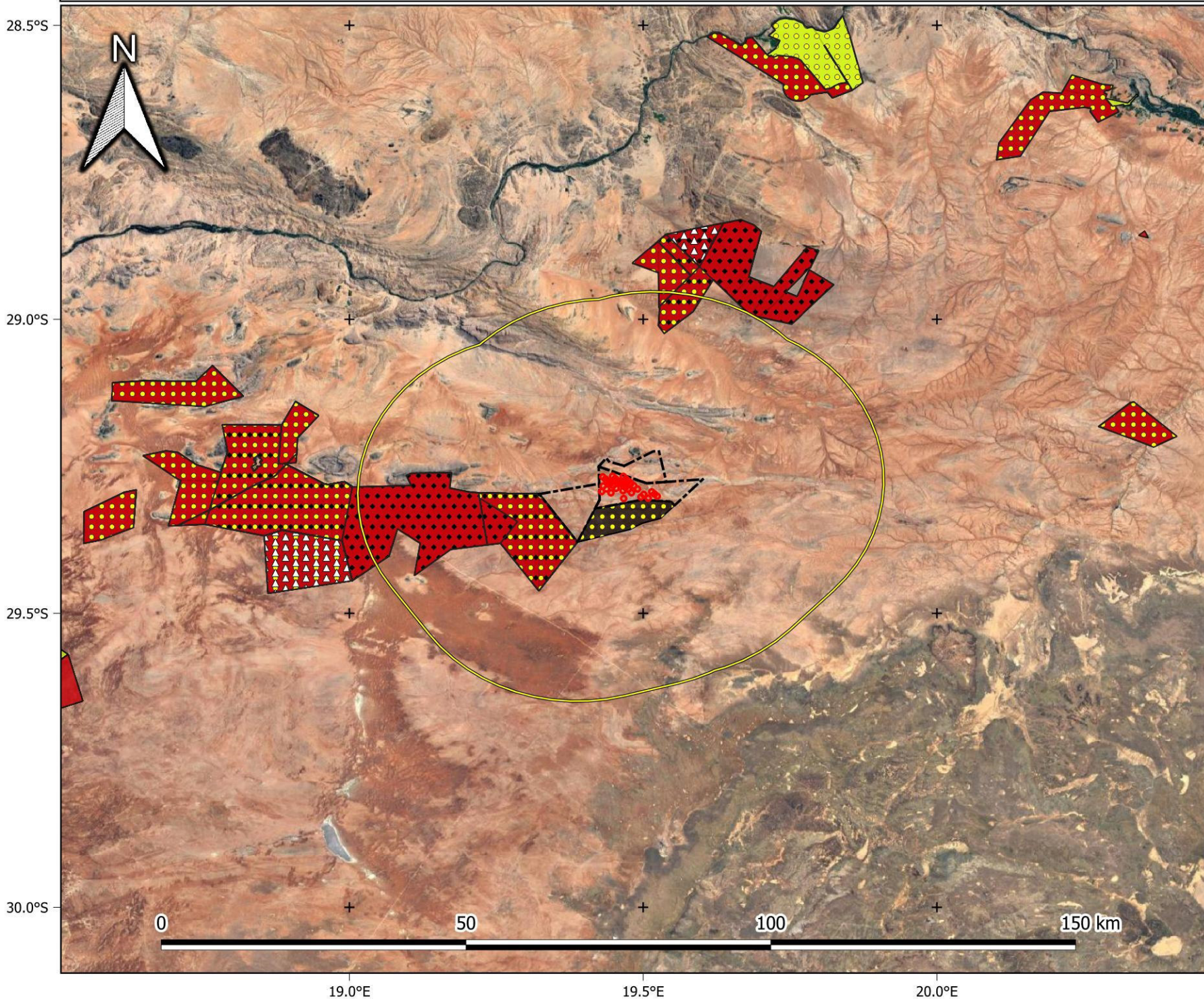
- Turbine layout
- Provinces
- Strategic transmission corridor
- Expanded transmission corridor
- REDZs phase 2
- REDZs phase 1

1:2 000 000

Provincial Context



De Rust: WEF South - Renewable energy developments in proximity



Legend

- Turbine layout
- ▭ Farm portions

Boundary

- Farm portion 30km buffer

Technology (REEA 2022 Q3)

- ▲▲▲ CSP
- PV
- Wind

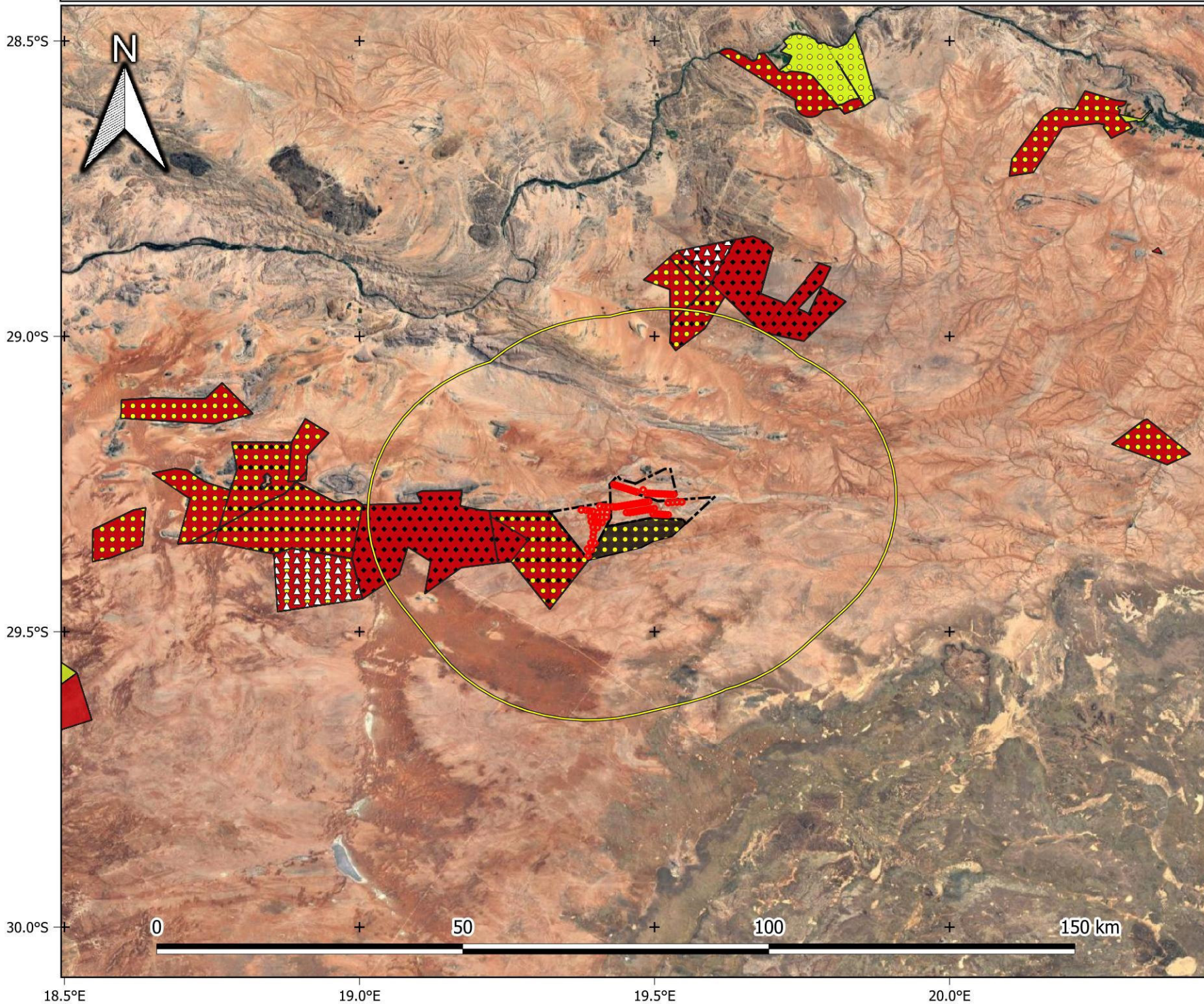
Status (REEA 2022 Q3)

- Approved
- In process
- Houmoed WEF (pre-application)

1:650 000



De Rust: WEF - Renewable energy developments in proximity (Alternative)



Legend

- Turbine layout
- ▭ Farm portions
- ▭ Farm portions 30km buffer

Technology (REEA 2022 Q3)

- △△△ CSP
- PV
- Wind

Status (REEA 2022 Q3)

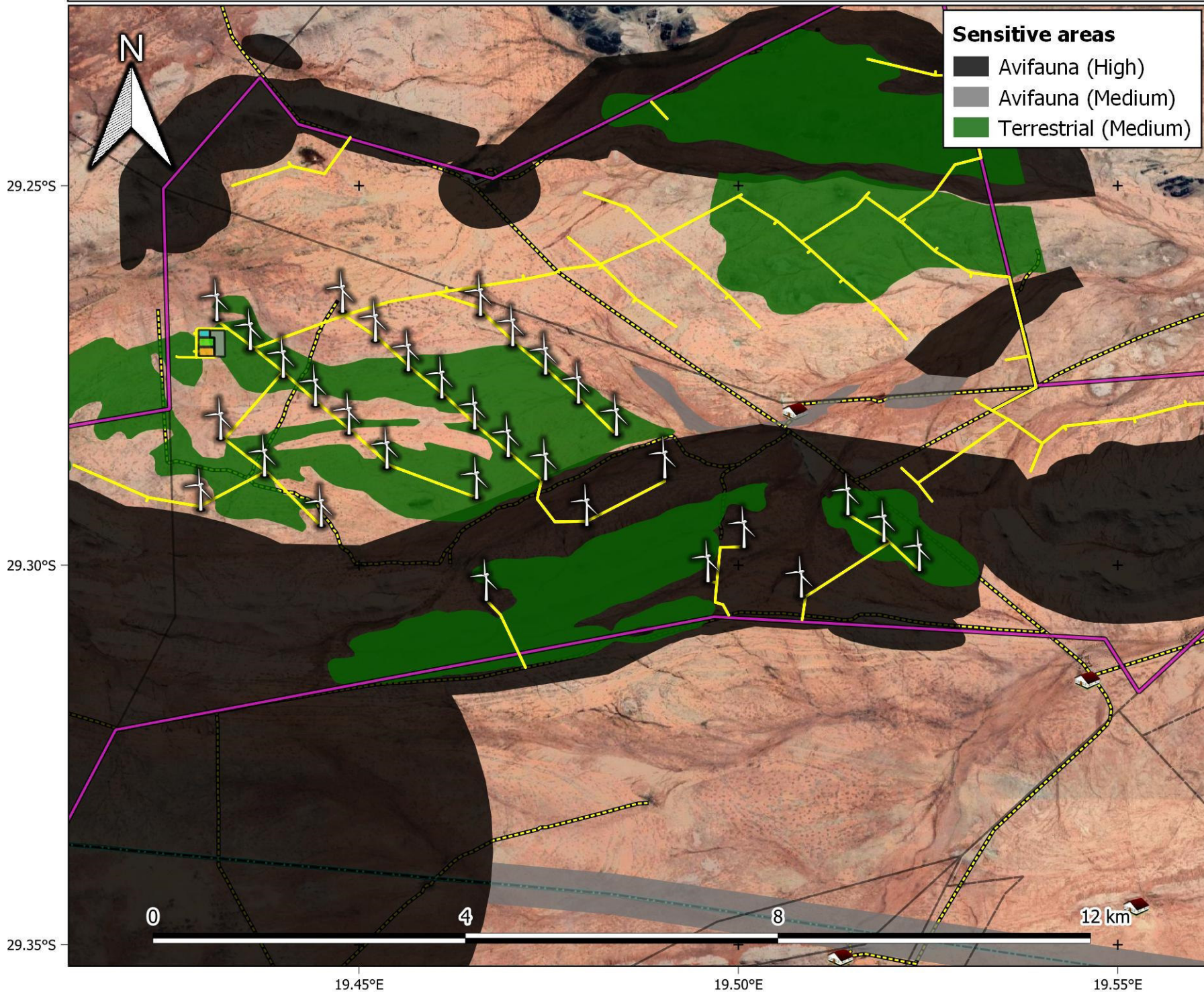
- Approved
- In process
- Houmoed WEF (pre-application)

1:650 000

Provincial Context



De Rust: WEF South - Habitat Sensitivity



Legend

- WEF boundary
- Farm portions

Existing infrastructure

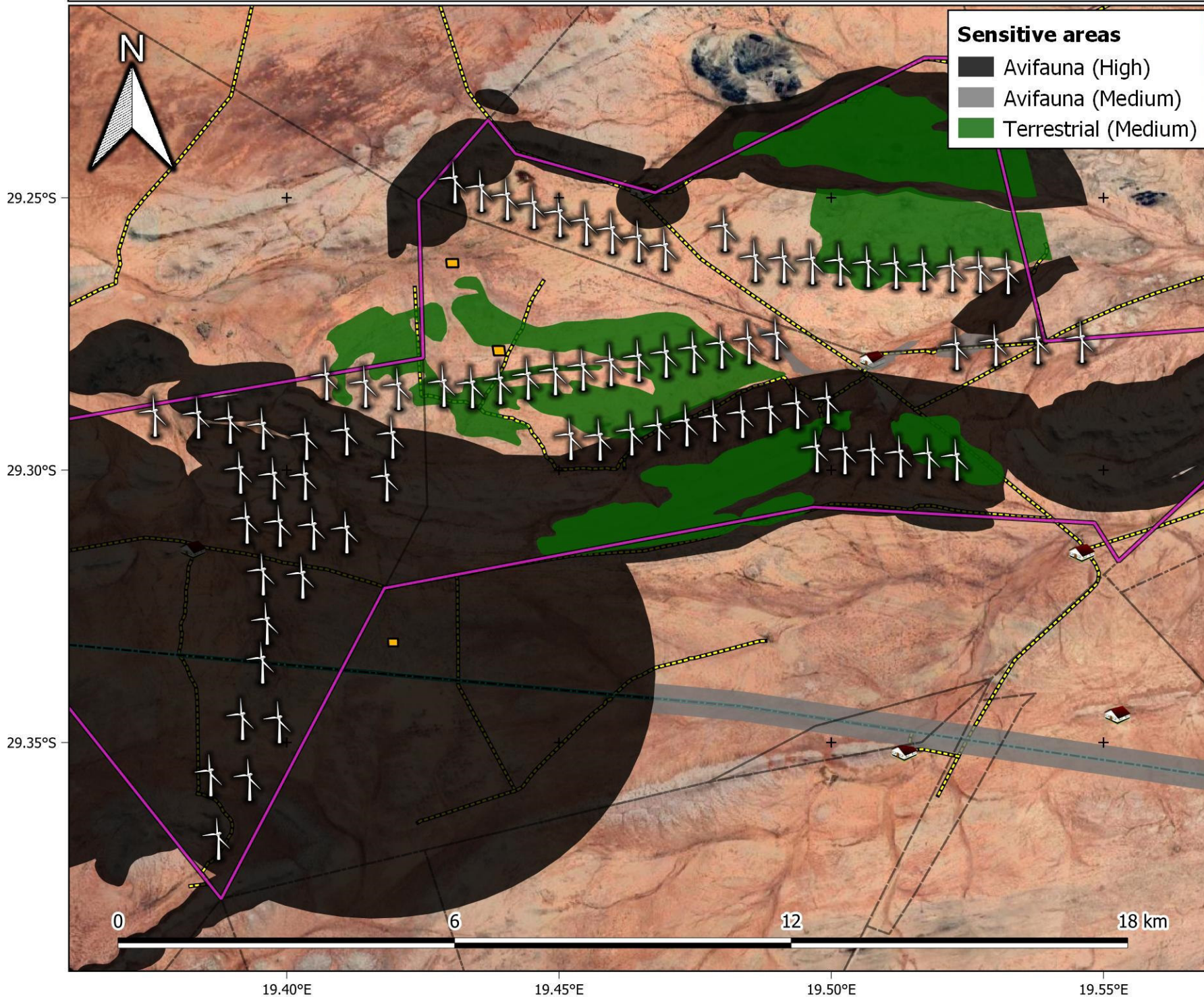
- Farm houses
- OH powerlines
- Roads

Proposed infrastructure

- Turbine layout (alternative 1)
- Laydown area
- Roads
- BESS
- O&M building
- OSS 1:50 000



De Rust: WEF - Habitat Sensitivity (Alternative Layout)



Sensitive areas

- Avifauna (High)
- Avifauna (Medium)
- Terrestrial (Medium)

Legend

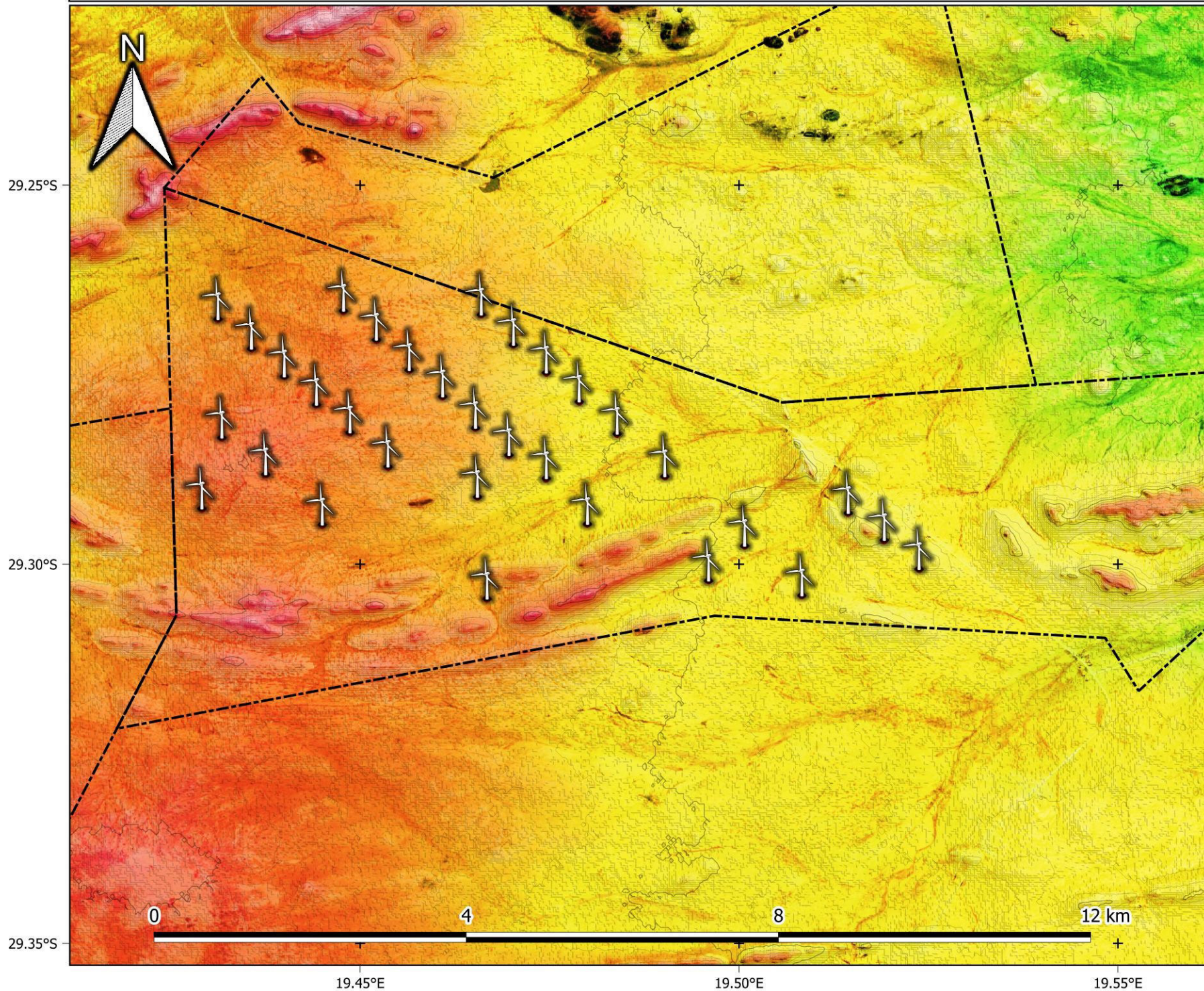
- WEF boundary
- Farm portions
- Existing infrastructure**
 - Farm houses
 - OH powerlines
 - Roads
- Proposed infrastructure**
 - Turbine layout (alternative 2)
 - OSS

1:70 000

Provincial Context

EnviroINSIGHT
environmental impact assessments

De Rust: WEF South - Topography



Legend

- Turbine layout
- Farm portions

Contours

- 10 m
- 50 m

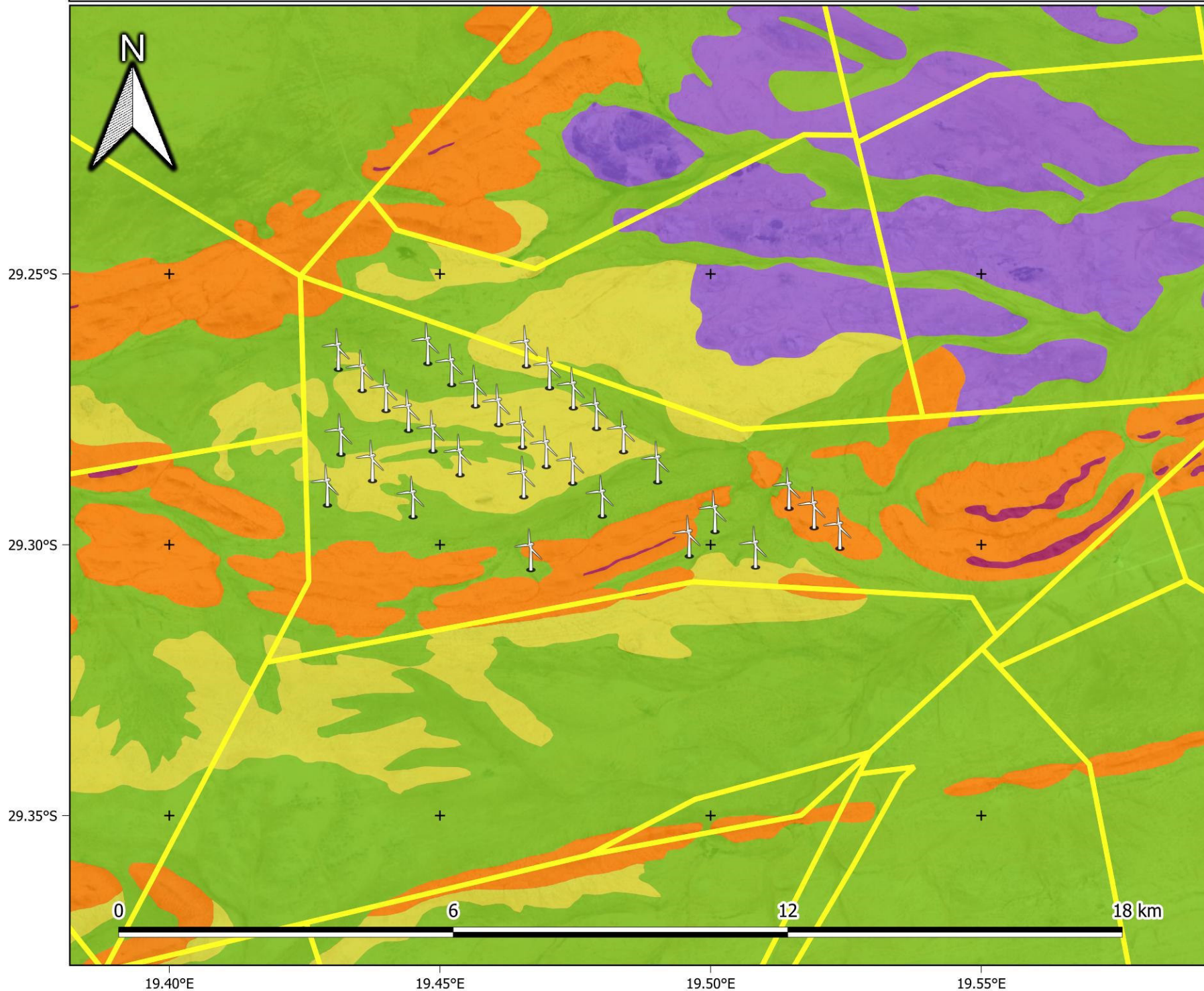
Elevation (masl)

- 950
- 1000
- 1022
- 1046
- 1077
- 1111
- 1130

1:50 000



De Rust: WEF South - Vegetation



Legend

- Turbine layout
- Farm portions

VegMap (2018)

- Aggeneys Gravel Vygieveld
- Bushmanland Arid Grassland
- Bushmanland Basin Shrubland
- Bushmanland Inselberg Shrubland
- Namaqualand Klipkoppes Shrubland

1:70 000

Provincial Context

Appendix A2:

Photographs



De Rust South WEF





