

Emvelo WEF Infrastructure

- Turbine Locations
- Emvelo WEF Boundary
- Site Boundary Vertices

Associated Infrastructure Locations

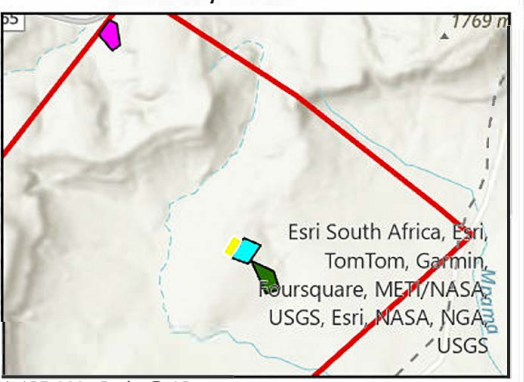
- Substation
- O&M Buildings
- Laydown Area (Preferred)
- Laydown Area (Alternative)

Grid Connection Options

- Alternative 1 Grid Connection
- Alternative 2 Grid Connection
- Alternative 3 Grid Connection
- Preferred Grid Connection
- Grid Co-ordinates

Public Roads

- National Road
- Arterial Road
- Secondary Road

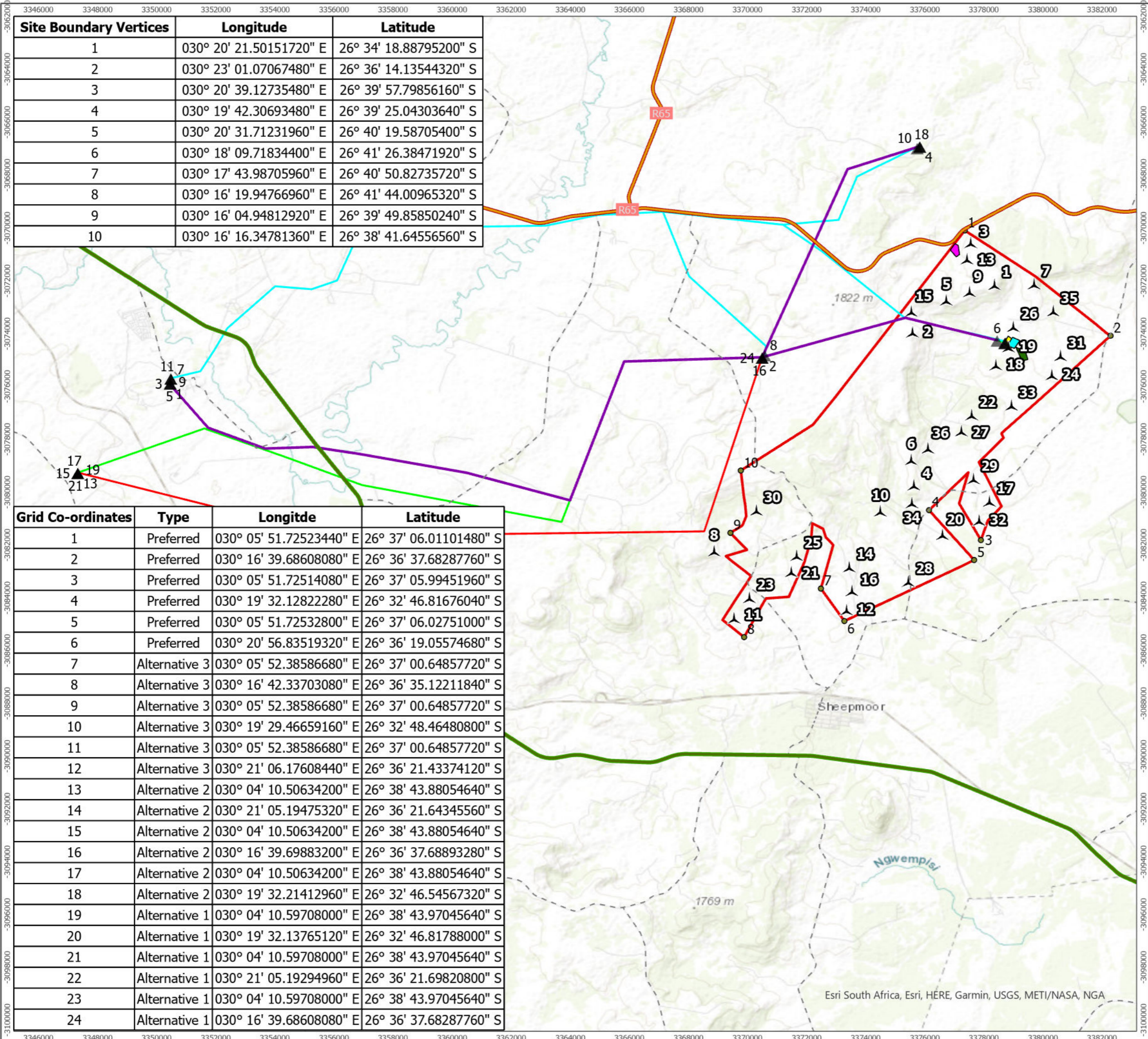


1:125,000 Scale @ A3
 0 2.55 5.1 km
 NORTH

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 Checked By: AA Date: 6/9/2024


Site Locality Map with Co-ordinates
 Figure 1-2

Emvelo WEF Scoping Report







Site Boundary Vertices	Longitude	Latitude
1	030° 20' 21.50151720" E	26° 34' 18.88795200" S
2	030° 23' 01.07067480" E	26° 36' 14.13544320" S
3	030° 20' 39.12735480" E	26° 39' 57.79856160" S
4	030° 19' 42.30693480" E	26° 39' 25.04303640" S
5	030° 20' 31.71231960" E	26° 40' 19.58705400" S
6	030° 18' 09.71834400" E	26° 41' 26.38471920" S
7	030° 17' 43.98705960" E	26° 40' 50.82735720" S
8	030° 16' 19.94766960" E	26° 41' 44.00965320" S
9	030° 16' 04.94812920" E	26° 39' 49.85850240" S
10	030° 16' 16.34781360" E	26° 38' 41.64556560" S

Grid Co-ordinates	Type	Longitude	Latitude
1	Preferred	030° 05' 51.72523440" E	26° 37' 06.01101480" S
2	Preferred	030° 16' 39.68608080" E	26° 36' 37.68287760" S
3	Preferred	030° 05' 51.72514080" E	26° 37' 05.99451960" S
4	Preferred	030° 19' 32.12822280" E	26° 32' 46.81676040" S
5	Preferred	030° 05' 51.72532800" E	26° 37' 06.02751000" S
6	Preferred	030° 20' 56.83519320" E	26° 36' 19.05574680" S
7	Alternative 3	030° 05' 52.38586680" E	26° 37' 00.64857720" S
8	Alternative 3	030° 16' 42.33703080" E	26° 36' 35.12211840" S
9	Alternative 3	030° 05' 52.38586680" E	26° 37' 00.64857720" S
10	Alternative 3	030° 19' 29.46659160" E	26° 32' 48.46480800" S
11	Alternative 3	030° 05' 52.38586680" E	26° 37' 00.64857720" S
12	Alternative 3	030° 21' 06.17608440" E	26° 36' 21.43374120" S
13	Alternative 2	030° 04' 10.50634200" E	26° 38' 43.88054640" S
14	Alternative 2	030° 21' 05.19475320" E	26° 36' 21.64345560" S
15	Alternative 2	030° 04' 10.50634200" E	26° 38' 43.88054640" S
16	Alternative 2	030° 16' 39.69883200" E	26° 36' 37.68893280" S
17	Alternative 2	030° 04' 10.50634200" E	26° 38' 43.88054640" S
18	Alternative 2	030° 19' 32.21412960" E	26° 32' 46.54567320" S
19	Alternative 1	030° 04' 10.59708000" E	26° 38' 43.97045640" S
20	Alternative 1	030° 19' 32.13765120" E	26° 32' 46.81788000" S
21	Alternative 1	030° 04' 10.59708000" E	26° 38' 43.97045640" S
22	Alternative 1	030° 21' 05.19294960" E	26° 36' 21.69820800" S
23	Alternative 1	030° 04' 10.59708000" E	26° 38' 43.97045640" S
24	Alternative 1	030° 16' 39.68608080" E	26° 36' 37.68287760" S







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Emvelo WEF Infrastructure

-  Turbine Locations
-  Emvelo WEF Boundary
-  Grid Co-ordinates
-  Site Boundary Vertices




Associated Infrastructure Locations

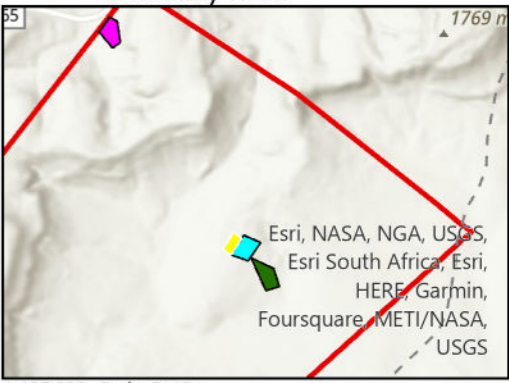
-  Substation
-  O&M Buildings
-  Laydown Area (Preferred)
-  Laydown Area (Alternative)

Grid Connection Options

-  Preferred Grid Connection
-  Alternative 3 Grid Connection
-  Alternative 1 Grid Connection
-  Alternative 2 Grid Connection



Public Roads

-  National Road
-  Arterial Road
-  Secondary Road



Esri, NASA, NGA, USGS, Esri South Africa, Esri, HERE, Garmin, Foursquare, METI/NASA, USGS

1:125,000 Scale @ A3

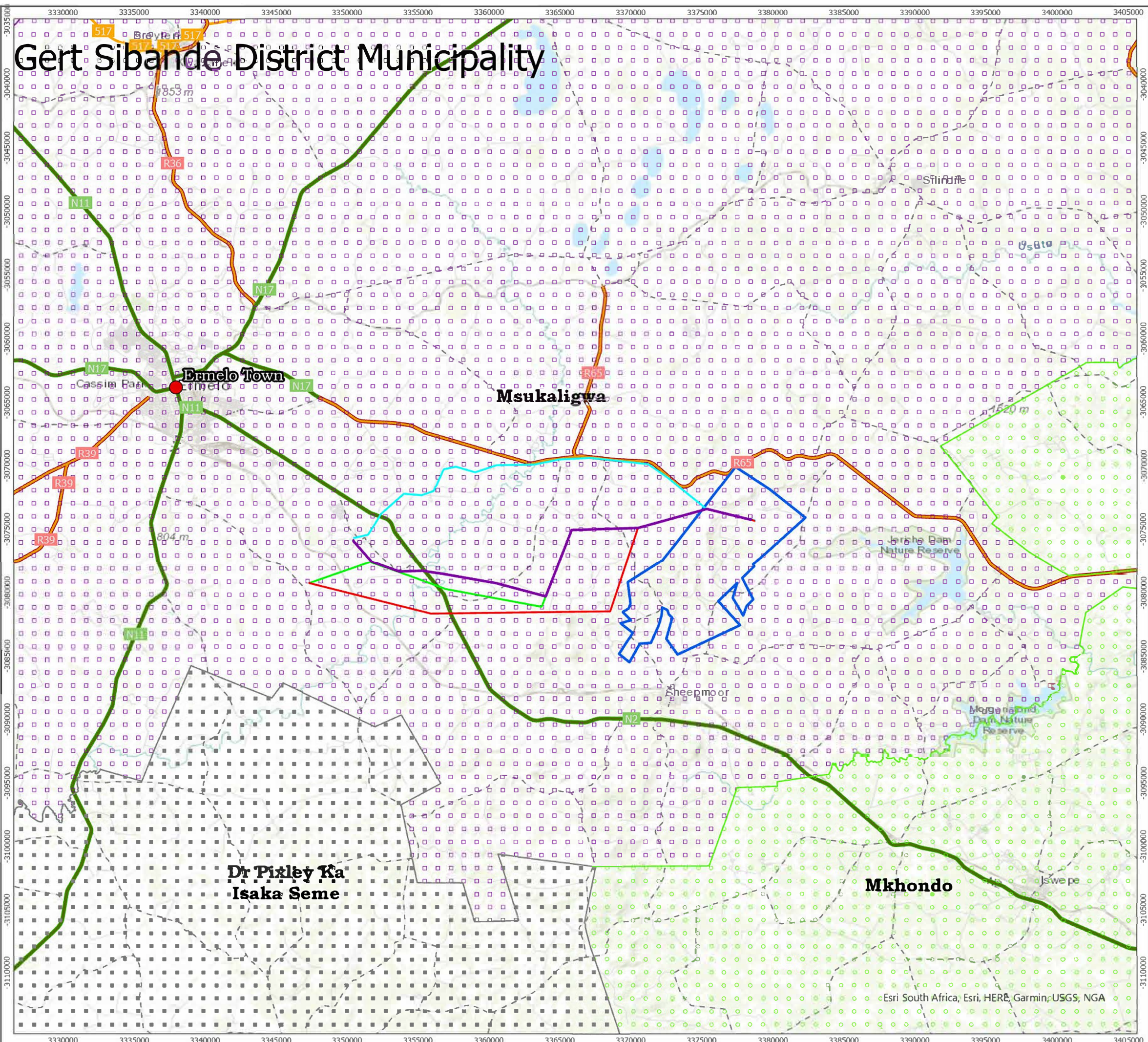



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Site Locality Map
Figure 2

Emvelo WEF
Scoping Report

Gert Sibande District Municipality



- Ermelo Town
- Emvelo WEF Boundary
- Grid Connection Options**
- Preferred Grid Connection
- Alternative 1 Grid Connection
- Alternative 2 Grid Connection
- Alternative 3 Grid Connection
- Local Municipalities**
- Dr Pixley Ka Isaka Seme
- Mkhondo
- Msukaligwa
- Public Roads**
- National Freeway
- National Road
- Arterial Road
- Main Road
- - - Secondary Road
- On/Off Ramp or Slipway

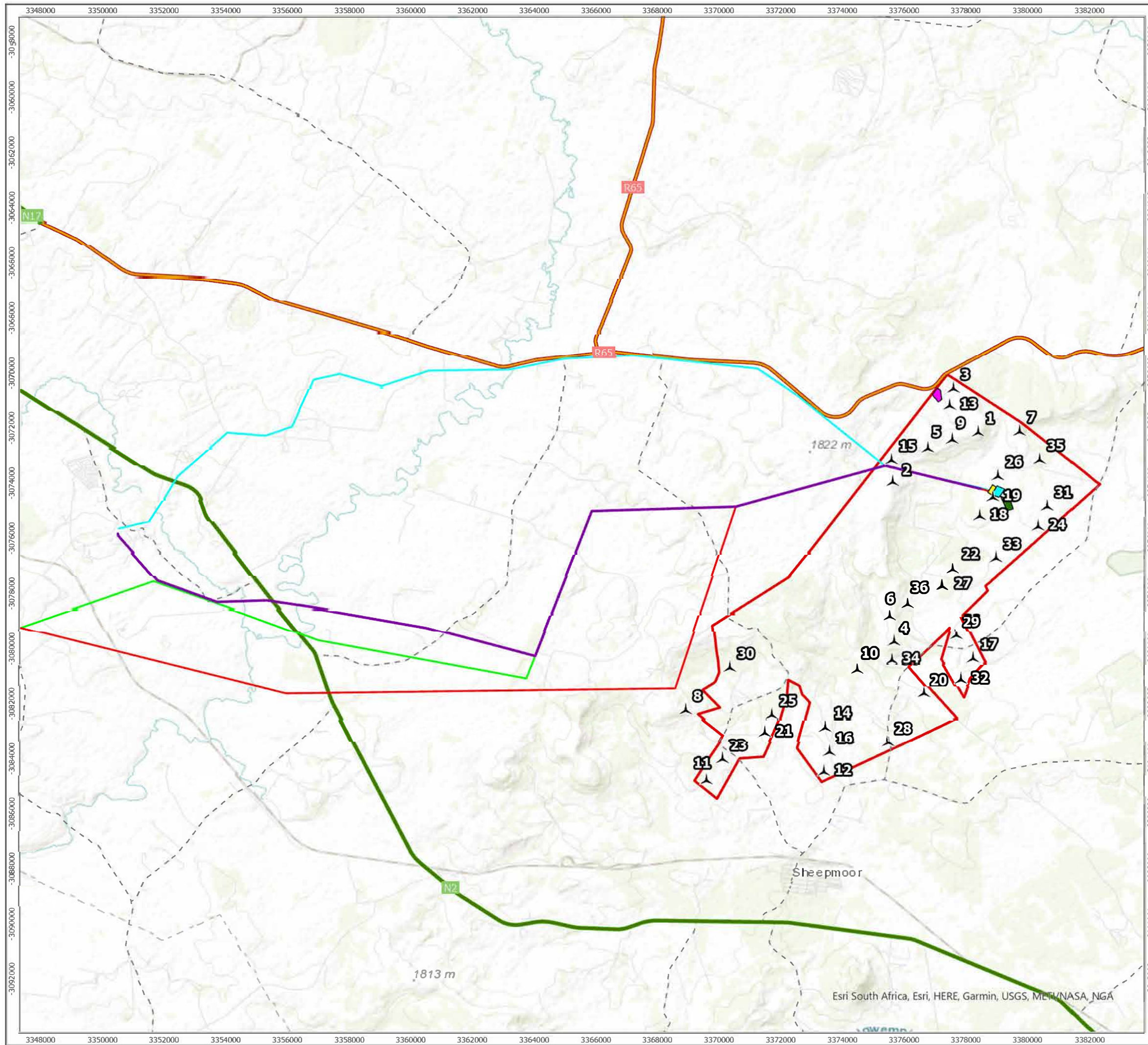


1:260,000 Scale @ A3
 0 5.1 10.2 km ▲ NORTH

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Site Locality Map
Figure 1-1

Emvelo WEF Scoping Report







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Emvelo WEF Infrastructure

-  Turbine Locations
-  Emvelo WEF Boundary

Associated Infrastructure Locations

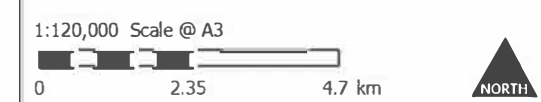
-  Substation
-  O&M Buildings
-  Laydown Area (Preferred)
-  Laydown Area (Alternative)

Grid Connection Options

-  Preferred Grid Connection
-  Alternative 1 Grid Connection
-  Alternative 2 Grid Connection
-  Alternative 3 Grid Connection

Public Roads

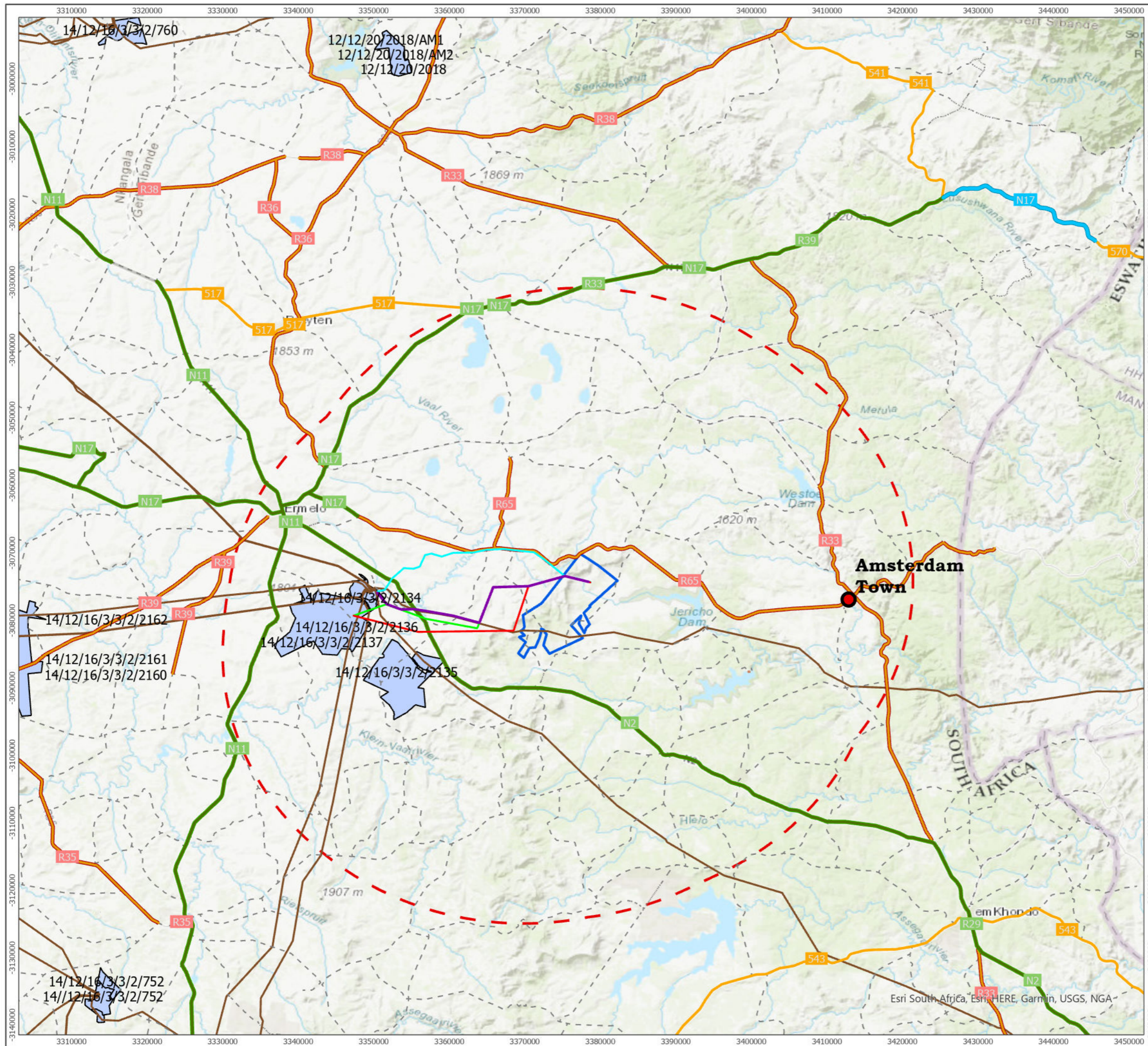
-  National Road
-  Arterial Road
-  Secondary Road



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Preferred Site Development Plan
Figure 1-2

Emvelo WEF Scoping Report



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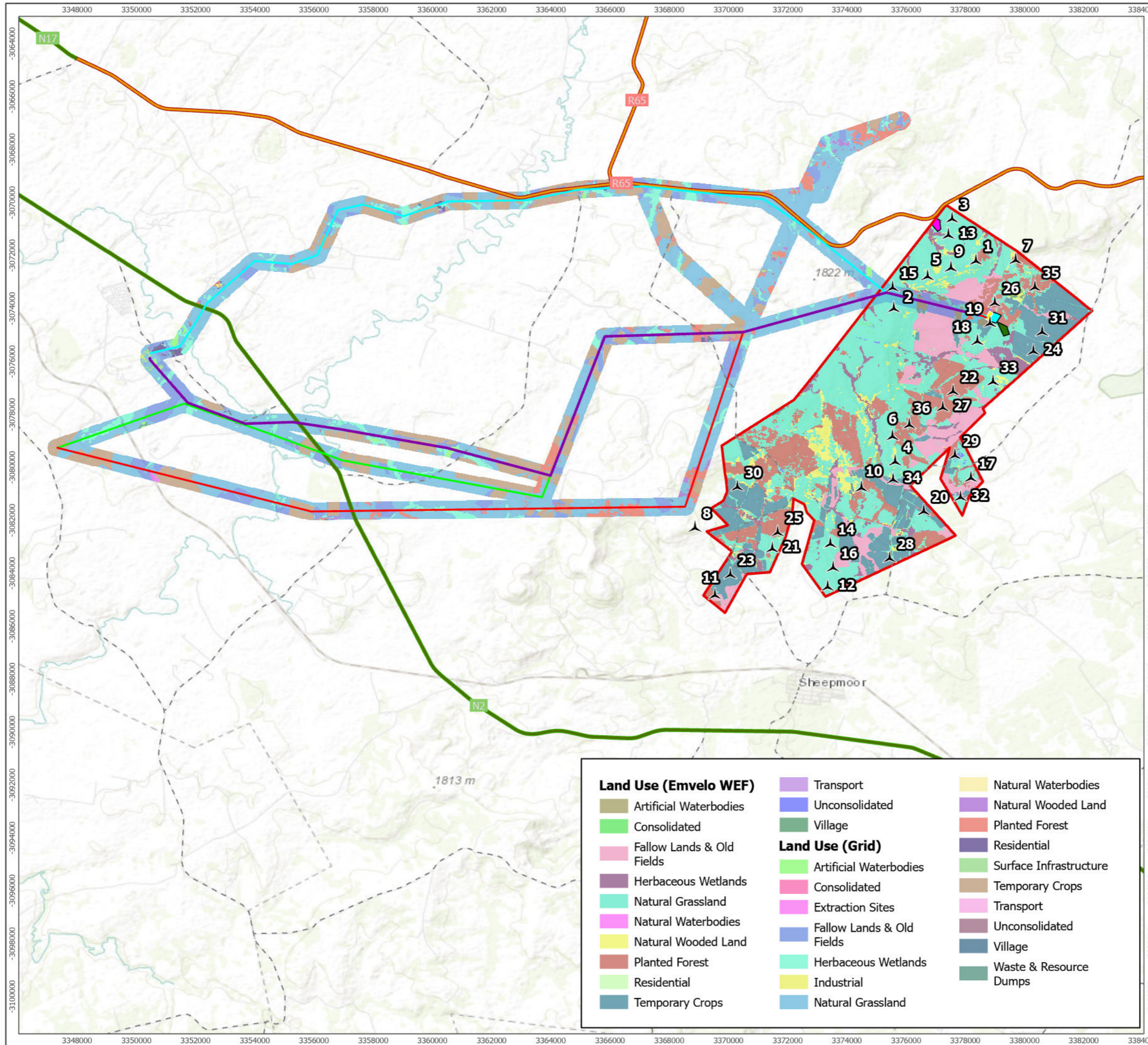
- Amsterdam
- Emvelo WEF Boundary
- 35km Buffer of Amsterdam
- WEF Boundary (Emvelo)
- Renewable Energy EIA Applications (2023 Q4)
- Grid Connection Options**
- Preferred Grid Connection
- Alternative 1 Grid Connection
- Alternative 2 Grid Connection
- Alternative 3 Grid Connection
- Existing Eskom Infrastructure**
- Grid Connections
- Public Roads**
- National Freeway
- National Road
- Arterial Road
- Main Road
- Secondary Road
- On/Off Ramp or Slipway

1:490,000 Scale @ A3
 0 9.55 19.1 km ▲ NORTH

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**Renewable Energy Projects
within 35km radius**
Figure 4

**Emvelo WEF
Scoping Report**



Emvelo WEF Infrastructure

- ▲ Turbine Locations
- ▭ Emvelo WEF Boundary

Associated Infrastructure Locations

- Substation
- O&M Buildings
- Laydown Area (Alternative)
- Laydown Area (Preferred)

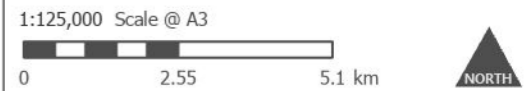
Grid Connection Options

- Preferred Grid Connection
- Alternative 2 Grid Connection
- Alternative 1 Grid Connection
- Alternative 3 Grid Connection

Public Roads

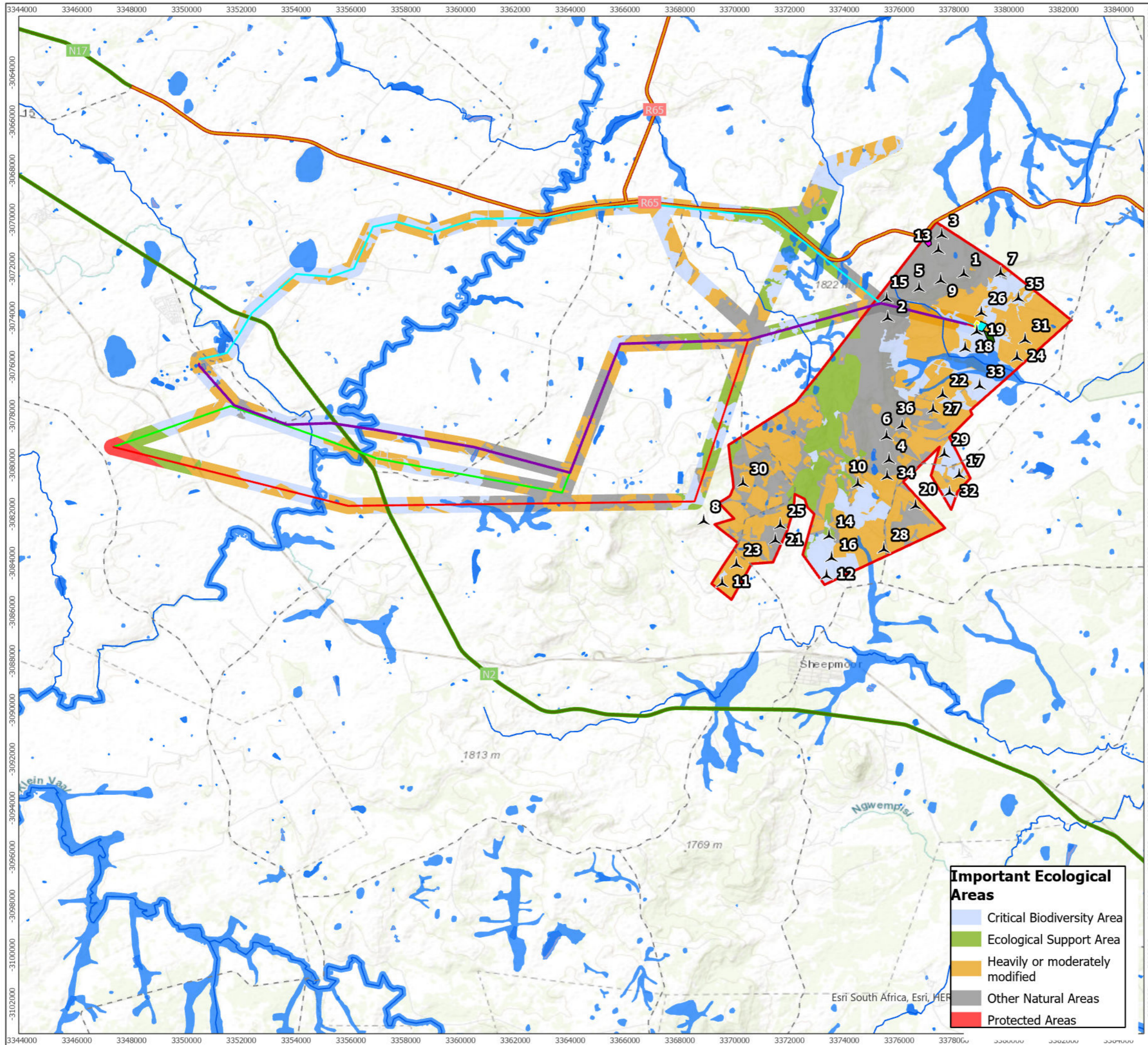
- National Road
- Arterial Road
- - - Secondary Road

Land Use (Emvelo WEF)		
■ Artificial Waterbodies	■ Transport	■ Natural Waterbodies
■ Consolidated	■ Unconsolidated	■ Natural Wooded Land
■ Fallow Lands & Old Fields	■ Village	■ Planted Forest
■ Herbaceous Wetlands	Land Use (Grid)	■ Residential
■ Natural Grassland	■ Artificial Waterbodies	■ Surface Infrastructure
■ Natural Waterbodies	■ Consolidated	■ Temporary Crops
■ Natural Wooded Land	■ Extraction Sites	■ Transport
■ Planted Forest	■ Fallow Lands & Old Fields	■ Unconsolidated
■ Residential	■ Herbaceous Wetlands	■ Village
■ Temporary Crops	■ Industrial	■ Waste & Resource Dumps
	■ Natural Grassland	



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Land Use
Figure 5



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Emvelo WEF Infrastructure

- ▲ Turbine Locations
- ▭ Emvelo WEF Boundary

Associated Infrastructure Locations

- ▭ Substation
- ▭ O&M Buildings
- ▭ Laydown Area (Preferred)
- ▭ Laydown Area (Alternative)

Grid Connection Options

- Preferred Grid Connection
- Alternative 2 Grid Connection
- Alternative 1 Grid Connection
- Alternative 3 Grid Connection

Wetlands

- NFEPA Rivers
- ▭ NFEPA Wetlands
- ▭ NBA Artificial Wetlands

Public Roads

- National Road
- Arterial Road
- Secondary Road

Important Ecological Areas

- ▭ Critical Biodiversity Area
- ▭ Ecological Support Area
- ▭ Heavily or moderately modified
- ▭ Other Natural Areas
- ▭ Protected Areas

1:135,000 Scale @ A3
 0 2.65 5.3 km
 NORTH

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Important Ecological Areas
Figure 6

G:\SA-GIS\Environment\0684401 Mullio WEFs\0684401 Mullio WEFs.aprx\0684401-GIS-013 Fig 6 Emvelo WEF Critical Biodiversity Area