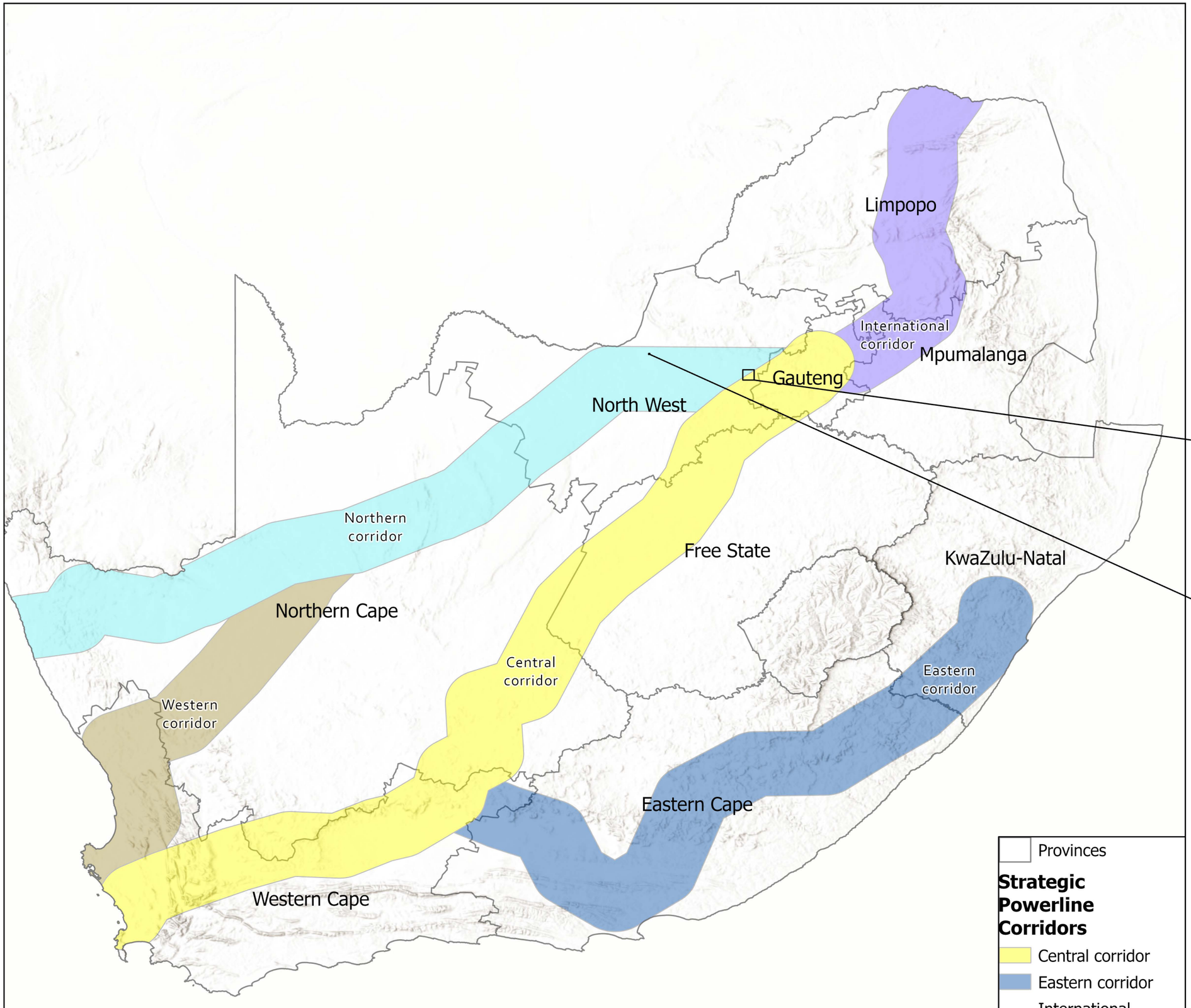
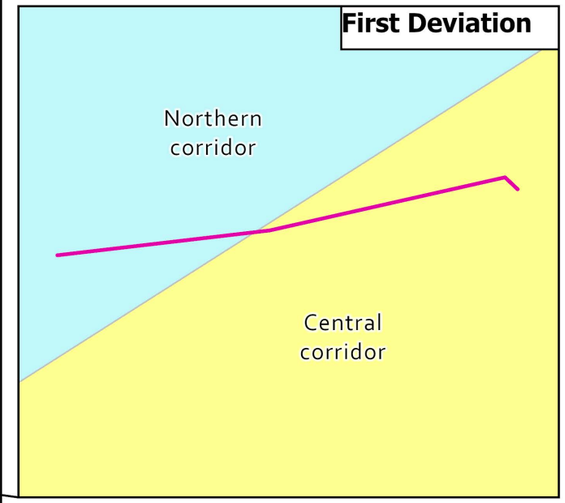
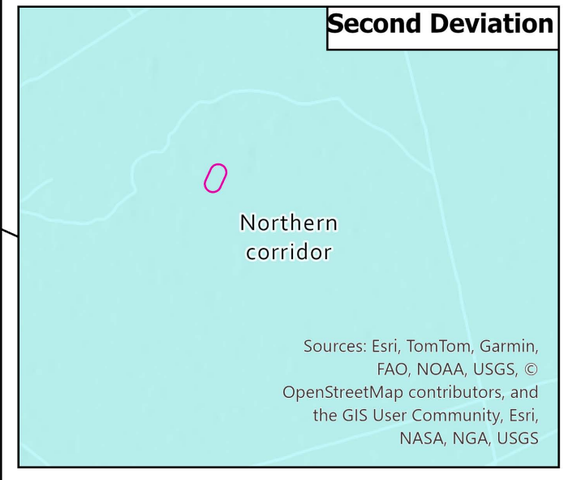
PROPOSED PLUTO-MAHIKENG 400KV POWERLINE DEVIATION IN NORTH WEST







Provinces

Strategic Powerline Corridors

- Central corridor
- Eastern corridor
- International corridor
- Northern corridor
- Western corridor

STRATEGIC TRANSMISSION CORRIDOR MAP

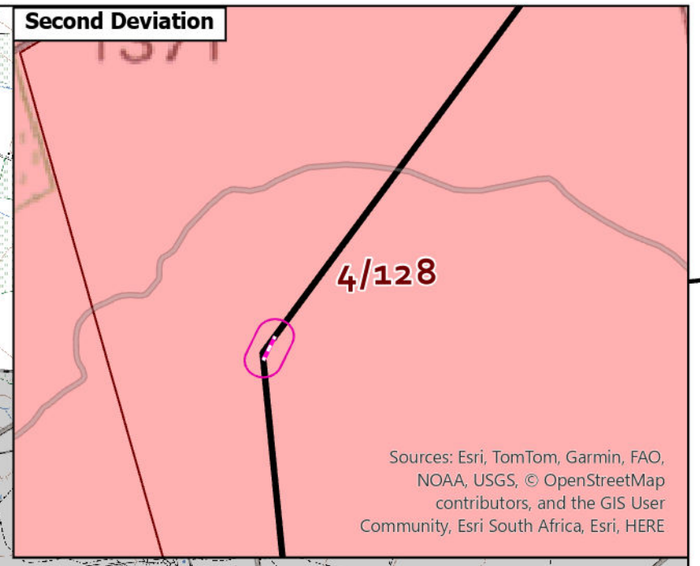
Project Ref:	Drawn by:	Scale:
Plut-Mah	BM	1:6,000,000
Coordinate System: GCS WGS 1984 Datum: WGS 1984 Units: Degree	Source: NTCSA, Esri, DFFE	

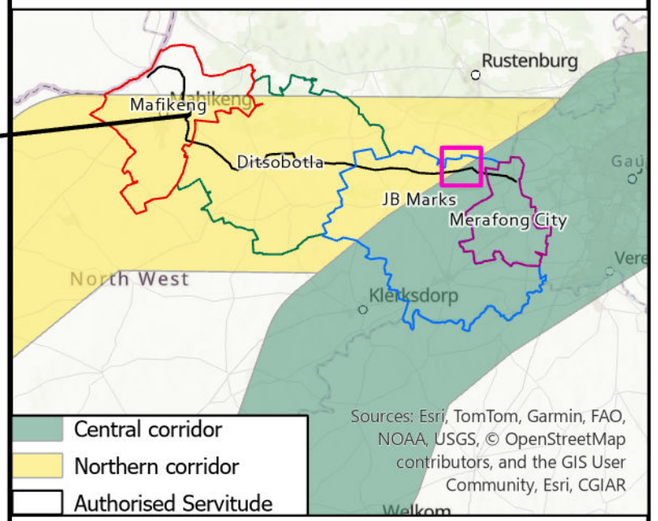
Building 2
Constantia Park
16th Road
Midrand, 1685

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

First Deviation

Second Deviation





Legend

- Pluto-Mahikeng 400kV Deviation Servitude
- Transmission_Existing_Lines
- Authourised Pluto-Mahikeng 2km Corridor
- Farms

Wards

- NW383_9
- NW405_31

0 1 3 6

km

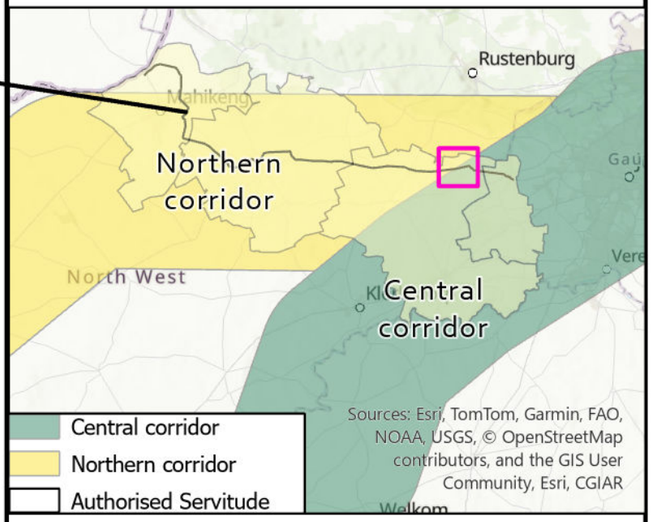
Project Ref: Dev. Pluto-Mahikeng	Map Locality	Source NGI,MDB , ESRI
Drawn By: BM	Date: Feb 2026	Scale on A3 1:75,000
Coordinate System GCS WGS 1984 Units: Degrees	Wind Direction	

546, 16th Road
Midrand
1685

National Freeway; National Route
Arterial Route
Main Road
Secondary Road; Bench Mark
Other Road; Bridge
Track and Hiking Trail
Railway; Station or Siding
Other Railway; Tunnel
Embankment; Cutting
Power Line
Built-up Area (High, Low Density)
Buildings; Ruin
Post Office; Police Station; Store
Place of Worship; School; Hotel
Fence; Wall
Windpump; Monument
Communication Tower
Mine Dump; Excavation
Trigonometrical Station; Marine Beacon
Lighthouse and Marine Light
Cemetery; Grave

International Boundary and Beacon
Provincial Boundary
Protected Area
Perennial River
Perennial Water
Non-perennial River
Non-Perennial Water
Dry Water Course
Dry Pan
Marsh and Vlei
Pipeline (above ground)
Water Tower; Reservoir; Water Point
Coastal Rocks
Prominent Rock Outcrop
Erosion; Sand
Woodland
Cultivated Land
Orchard or Vineyard
Recreation Ground
Row of Trees

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION



Legend

- Towns
- Pluto-Mahikeng 400kV Powerline Deviation
- Transmission_Existing_Lines
- Authourised Pluto-Mahikeng 2km Corridor
- Farms

0 1 3 6

km

Project Ref:	Map	Source
Dev. Pluto-Mahikeng	Locality	NGI,MDB , ESRI
Drawn By: BM	Date: Feb 2026	Scale on A3 1:75,000
Coordinate System GCS WGS 1984 Units: Degrees	Wind Direction	

546, 16th Road
Midrand
1685

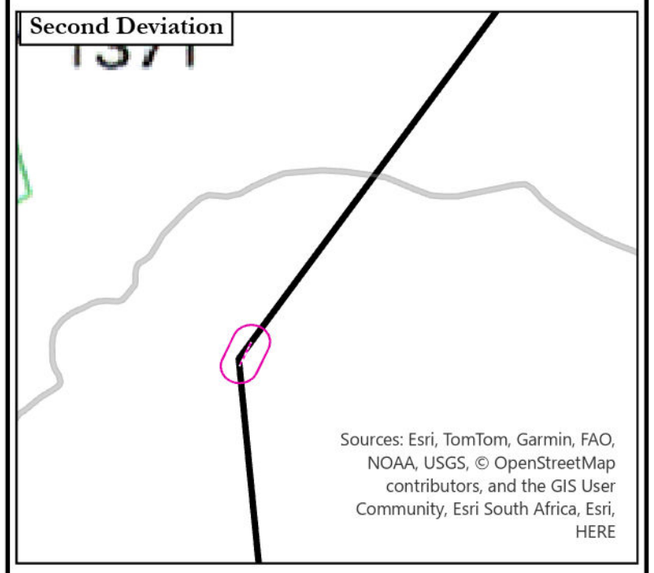
First Deviation

D2697
D2069
D1236
D1664
Doorns Road
Bovenste Oog
Klerkskraal Dam
Morgenzon
Klipgat
Grootfontein
Sinkhole
Old Diggings
Diggings
GOEDGEDACHT 27 IQ
MORGENZON 9 IQ
KLIPGAT 18 IQ
NOOITGEDACHT 69 IQ
BUCHANSVALE 61 IQ
SOMERVILLE 62 IQ
EILEEN'S HOME 67 IQ
BOVENSTE OOG VAN MOOIRIVIER 68 IQ
DIGBY PLAIN 63 IQ
KLERKSKRAAL 65 IQ
WELGEVONDEN 66 IQ
WOLVENFONTEIN 74 IQ

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

Second Deviation



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

Legend

- Transmission Existing Lines
- Pluto-Mahikeng 400kV Deviation Servitude
- Class C: Moderately Modified

NFEPA Wetlands

- Artificial,Channelled valley-bottom wetland
- Natural,Channelled valley-bottom wetland

Project Ref: Dev. Pluto-Mahikeng	Map Water Resources	Source NGI, BGIS
Drawn By: BM	Date: Feb 2026	Scale on A3 1:60,000
Coordinate System GCS WGS 1984 Units: Degrees	0 0.78 1.55 3.1 km	

546, 16th Road
Midrand
1685

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

Second Deviation

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

First Deviation

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, NASA, NGA, USGS

Legend

- Pluto-Mahikeng 400kV Deviation Servitude

Strategic Water Source Area (GW)

- Bo-Molopo Karst Belt
- Ventersdorp/Schoonspruit Karst Belt

Project Ref:	Map	Source
Dev. Pluto-Mahikeng	NBA-Water	Esri, BGIS
Drawn By: BM	Date: Feb 2026	Scale on A3 1:750,000
Coordinate System GCS WGS 1984 Units: Degrees	0 9.5 19 38 km	



546, 16th Road
Midrand
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First Deviation

D2697

D1236

D2069

D1664

D2069

D1236

D2697

Somerville Private Nature Reserve

Bovenste Oog

Fred Coetzee Private Nature Reserve

D2697

Klerkskraal Dam

N14

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

Second Deviation

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

Legend

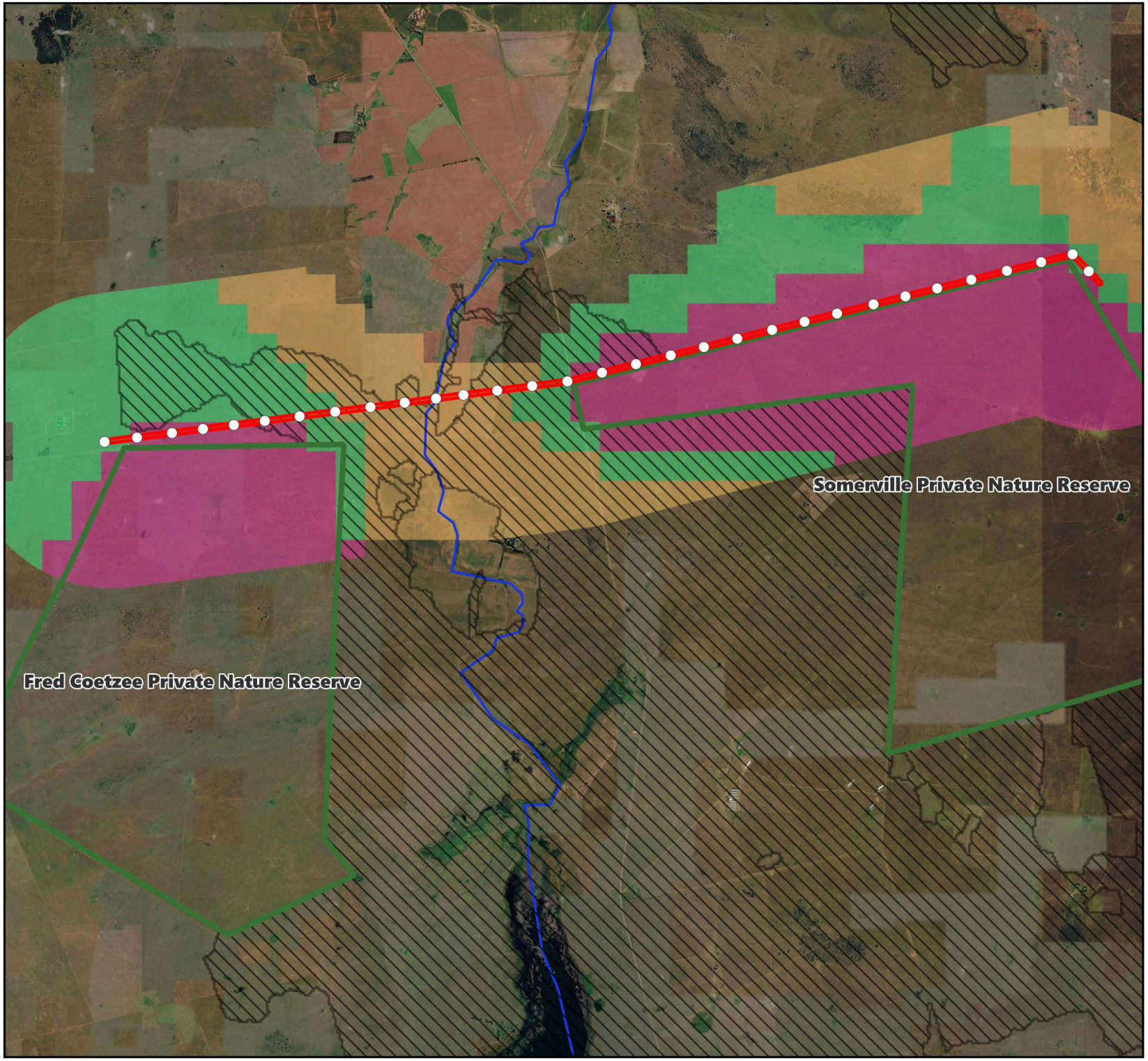
- Transmission Existing Lines
- Pluto-Mahikeng 400kV Deviation Servitude
- National Protected Areas Expansion Strategy (2018)
- Protected Areas

North West Biodiversity Sector Plan 2025 CBA Map

- CBA1,Aquatic
- CBA2,Aquatic
- ESA1,Aquatic
- ESA2,Aquatic

Project Ref:	Map	Source
Dev. Pluto-Mahikeng	Aquatic CBAs	NGI, DFFE, BGIS
Drawn By: BM	Date: Feb 2026	Scale on A3 1:75,000
Coordinate System GCS WGS 1984 Units: Degrees	0 0.97 1.95 3.9 km	

546, 16th Road
Midrand
1685



Legend

- Pluto-Mahikeng 400kV Towers
- Deviation 1 Servitude
- Protected Areas
- NPAES
- River

NWBSP

- Terrestrial CBA1
- Terrestrial CBA2
- Terrestrial ESA1

Coordinate System:
WGS 84 / Pseudo-Mercator

Map Scale:

0 1 2 km



Legend

- Pluto-Mahikeng 400kV Towers
- Deviation 2 Servitude
- Protected Areas
- NPAES

NWBSP

- Terrestrial CBA1
- Terrestrial ESA1

Coordinate System:
WGS 84 / Pseudo-Mercator

Map Scale:
0 250 500 m

First Deviation

D2069

Doorns Road

D1236

D2697

D2069

Morgenzon

D2069

Dooms Road

D1236

D2697

Bovenste Oog van Mooirivier

Bovenste Oog

D2697

D2697

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

Second Deviation

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

Legend

- Pluto-Mahikeng 400kV Powerline Deviation
- Transmission Existing Lines
- Pluto-Mahikeng 400kV Deviation Servitude

Terrestrial Remnants(Red List Ecosystems)

- Carletonville Dolomite Grassland,LC
- Rand Highveld Grassland,VU
- Klerksdorp Thornveld,LC

Project Ref:	Map	Source
Dev. Pluto-Mahikeng	Vegetation	NGI, DFFE, BGIS
Drawn By: BM	Date: Feb 2026	Scale on A3 1:60,000
Coordinate System GCS WGS 1984 Units: Degrees	0 0.78 1.55 3.1 km	

546, 16th Road
Midrand
1685

First Deviation

Doorns Road

D2069

D2697

D1236

Morgenzon

Groote Tuis

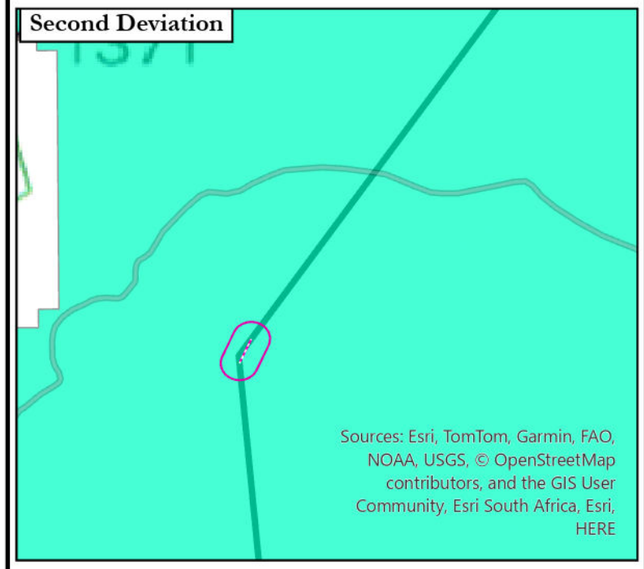
Bovenste Oog

Bovenste Oog van Mooirivier

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

Second Deviation



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

Legend

- Transmission Existing Lines
- Pluto-Mahikeng 400kV Deviation Servitude

Terrestrial Protection Level

- Poorly Protected

Project Ref: Dev. Pluto-Mahikeng	Map PL	Source NGI, DFFE, BGIS
Drawn By: BM	Date: Feb 2026	Scale on A3 1:60,000
Coordinate System GCS WGS 1984 Units: Degrees	0 0.78 1.55 3.1 km	



546, 16th Road
Midrand
1685

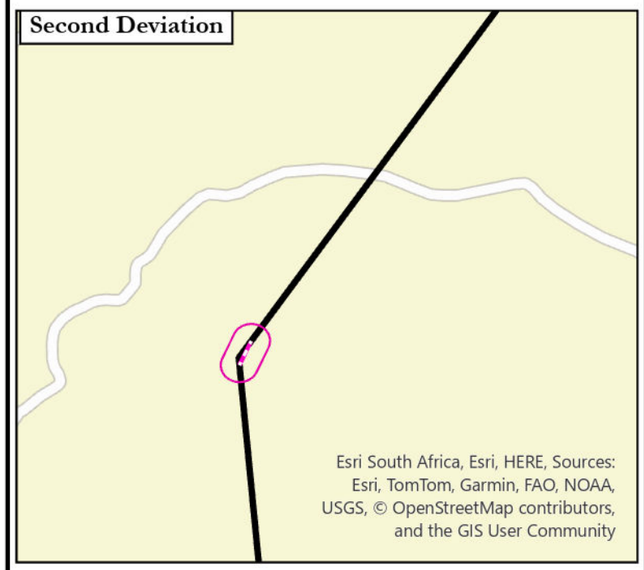
First Deviation

R30
R509
D324
D2730
D990
D1634
D2695
D1927
D2697
D1634
R509
D1654
D2694
D2698
D2698
D1236
D2697
D1664
D249
D1822
Doorns Road
D1236
D2697
D1822
D142
N14
D1755
R500
N14
D331
D859
D859
D1400
D1150
Carletonville
Farmers Road
D91
Welverdiend
D1150
D2100

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

Second Deviation



Esri South Africa, Esri, HERE, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Legend

Pluto-Mahikeng 400kV Powerline Deviation

Pluto-Mahikeng 400kV Deviation Servitude

Protected Agricultural Areas

Koster-Derby PAA,RF

Matlosana-Tlokwe PAA,RF

Project Ref: Dev. Pluto-Mahikeng	Map PAA	Source Esri, DoA
Drawn By: BM	Date: Feb 2026	Scale on A3 1:200,000
Coordinate System GCS WGS 1984 Units: Degrees	0 2.6 5.2 10.4 km	

546, 16th Road
Midrand
1685

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

First Deviation

D2697
D2069
D1236
D1664
Doorns Road
Bovenste Oog
Kierkskraal Dam

Legend

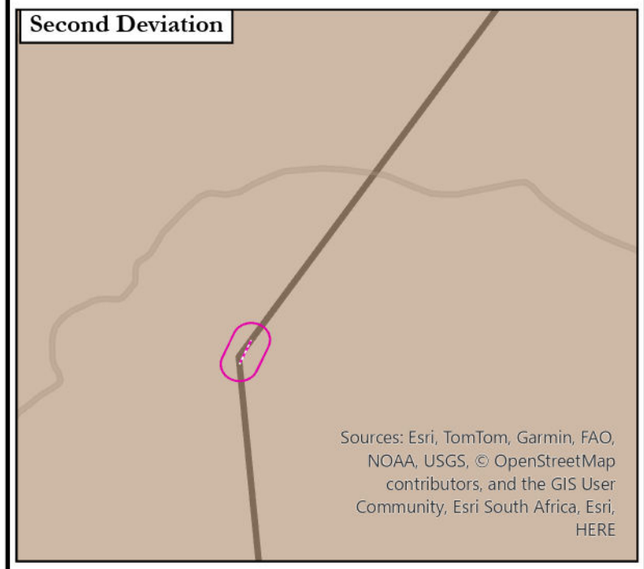
- Pluto-Mahikeng 400kV Powerline Deviation
- Transmission Existing Lines
- Pluto-Mahikeng 400kV Deviation Servitude

Geology

- Andesitic lavas, tuffs
- Dolomite, subordinate chert, minor carbonaceous shale, limestone and quartzite
- Quartzite, subordinate conglomerate and shale

Sources:

Second Deviation



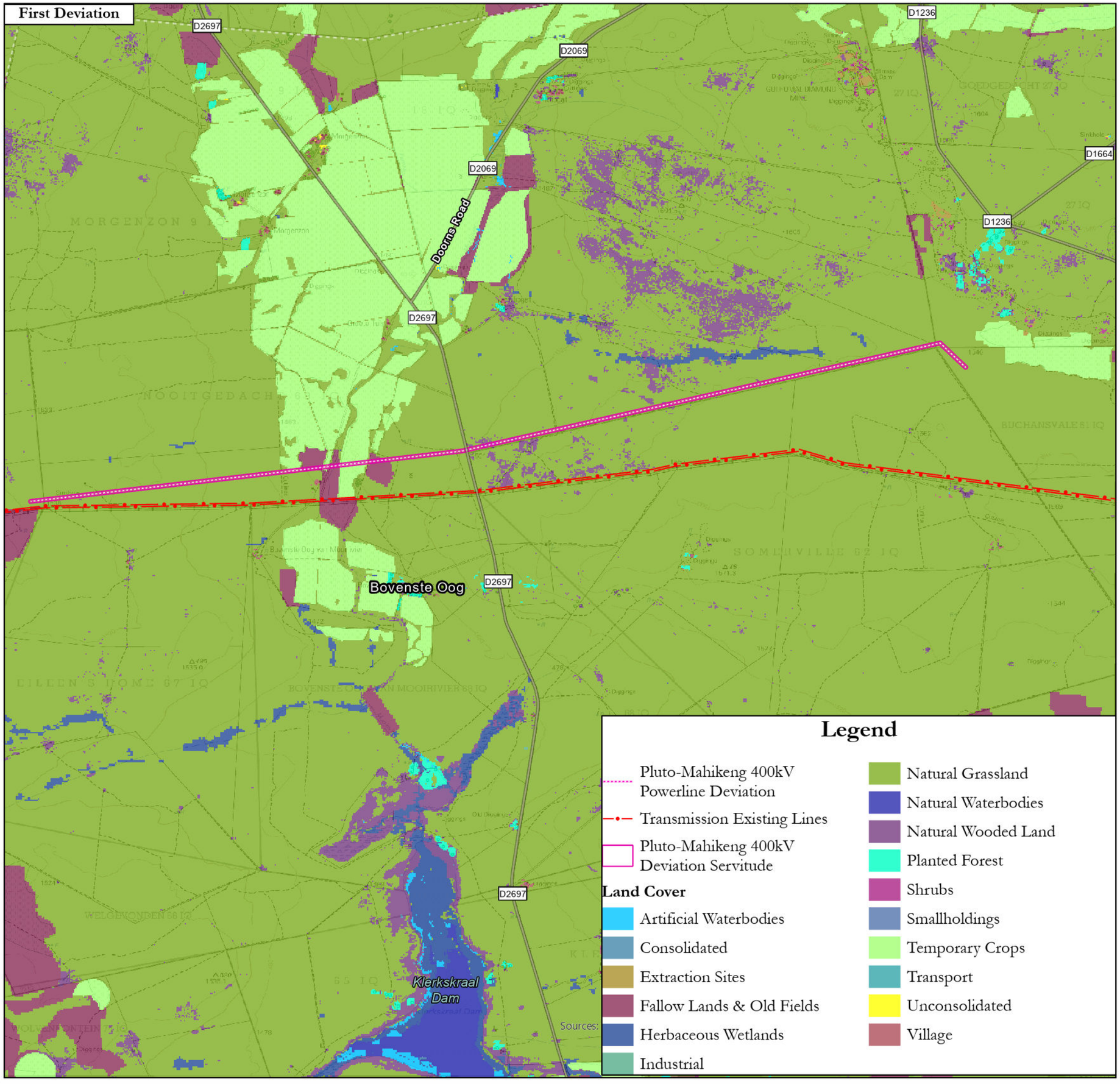
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE

Project Ref:	Map	Source
Dev. Pluto-Mahikeng	Geology	NGI, CGS
Drawn By: BM	Date: Feb 2026	Scale on A3 1:60,000
Coordinate System GCS WGS 1984 Units: Degrees	0 0.78 1.55 3.1 km	

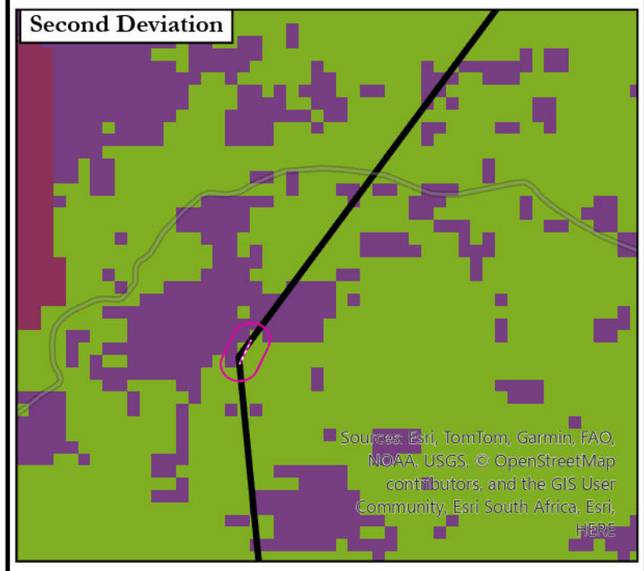
546, 16th Road
Midrand
1685

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION

First Deviation



Second Deviation



Legend

- Pluto-Mahikeng 400kV Powerline Deviation
- Transmission Existing Lines
- Pluto-Mahikeng 400kV Deviation Servitude

Land Cover

- Artificial Waterbodies
- Consolidated
- Extraction Sites
- Fallow Lands & Old Fields
- Herbaceous Wetlands
- Industrial
- Natural Grassland
- Natural Waterbodies
- Natural Wooded Land
- Planted Forest
- Shrubs
- Smallholdings
- Temporary Crops
- Transport
- Unconsolidated
- Village

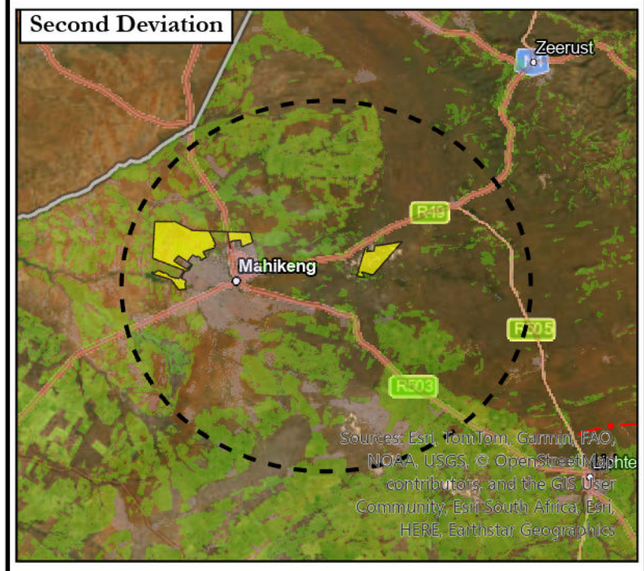
Project Ref:	Map	Source
Dev. Pluto-Mahikeng	Land cover	NGI, DFFE
Drawn By: BM	Date: Feb 2026	Scale on A3 1:60,000
Coordinate System GCS WGS 1984 Units: Degrees	0 0.78 1.55 3.1 km	

546, 16th Road
Midrand
1685

First Deviation

Koster
Derby
Magalie
Ventersdorp
Carletonville
Fochville
Main St
Station St
Church St
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri South Africa, Esri, HERE, Earthstar Geographics

PLUTO-MAHIKENG 400 KV POWERLINE DEVIATION



Legend

- Carmel MTS
- Pluto MTS
- Pluto-Mahikeng 400kV Powerline Deviation
- Pluto-Mahikeng 400kV Deviation Servitude
- Transmission Existing Lines

Transmission Planned Lines

- 765 kV
- 30km radius
- Approved Renewable Energy Plants

Land cover

- Built-up
- Cultivated
- Mines & Quarries

Project Ref:	Map	Source
Dev. Pluto-Mahikeng	Cumulative	Esri, DFFE, NTCSA
Drawn By: BM	Date: Feb 2026	Scale on A3 1:300,000
Coordinate System GCS WGS 1984 Units: Degrees	0 3.9 7.8 15.6 km	

546, 16th Road
Midrand
1685

Legend

- Pluto Mahikeng 400 kV towers
- Pluto-Mahikeng 400 kV Powerline Deviation Servitude
- Approved 2km Corridor
- Existing Powerline Corridor
- Bird Flight Diverters
- No-go Areas
- Medium Sensitivity

PROPOSED PLUTO-MAHIKENG 400KV POWERLINE DEVIATIONS

SENSITIVITY MAP

NOTES

No-go Areas
These consists of areas within the Freshwater Buffers, Protected Areas, NPAES, CBA and ESA areas outside the servitude

High Sensitivity
These areas consist of CBA and NPAES Areas inside the servitude, where clearance will be at towers only.

Medium Sensitivity.
These areas are ESA areas and cultivated areas.

Deviation 2
Approximately +/- 45m lateral deviation

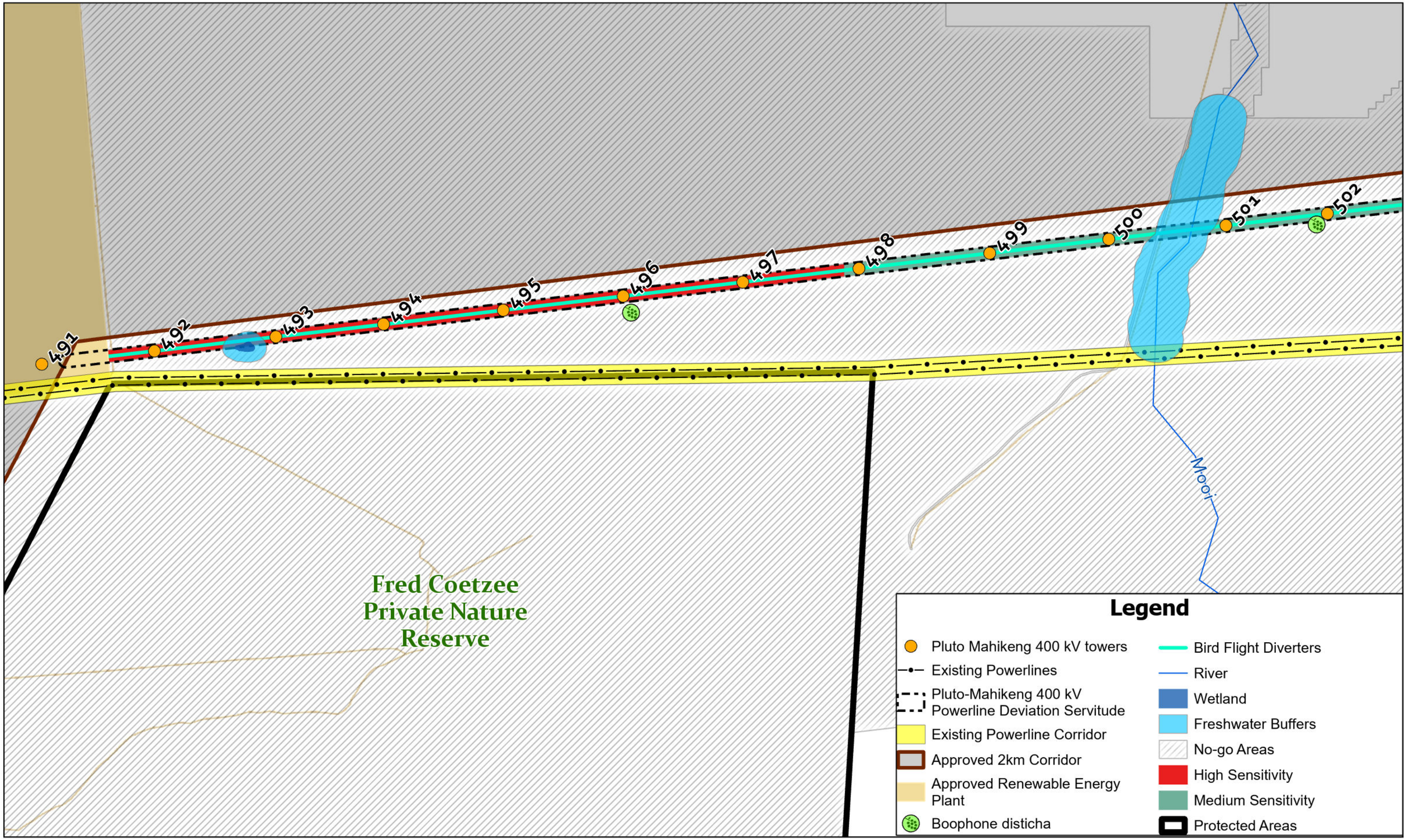
Access Road
Only established if no access tracks are available.

PROJECT	MAP NO.:	SCALE	REV.
Pluto_Dev	01	1:3,500	00
DRAWN BY	CHECKED BY	DATE	
BM	MM	June 2026	

0 0 0.1 0.1
km

Spatial Reference
GCS: GCS WGS 1984
Map Units: Degree

Source:
NGI (Topo), Specialists, Esri, NTCSA



PROPOSED PLUTO-MAHIKENG 400KV POWERLINE DEVIATIONS

SENSITIVITY MAP

NOTES

No-go Areas
These consists of areas within the Freshwater Buffers, Protected Areas, NPAES, CBA and ESA areas outside the servitude

High Sensitivity
These areas consist of CBA and NPAES Areas inside the servitude, where clearance will be at towers only.

Medium Sensitivity,
These areas are ESA areas and cultivated areas.

Existing Infrastructure
The Fred Coetzee Private Nature Reserve; is traversed only by the existing authorised line, which is unaffected by this deviation.

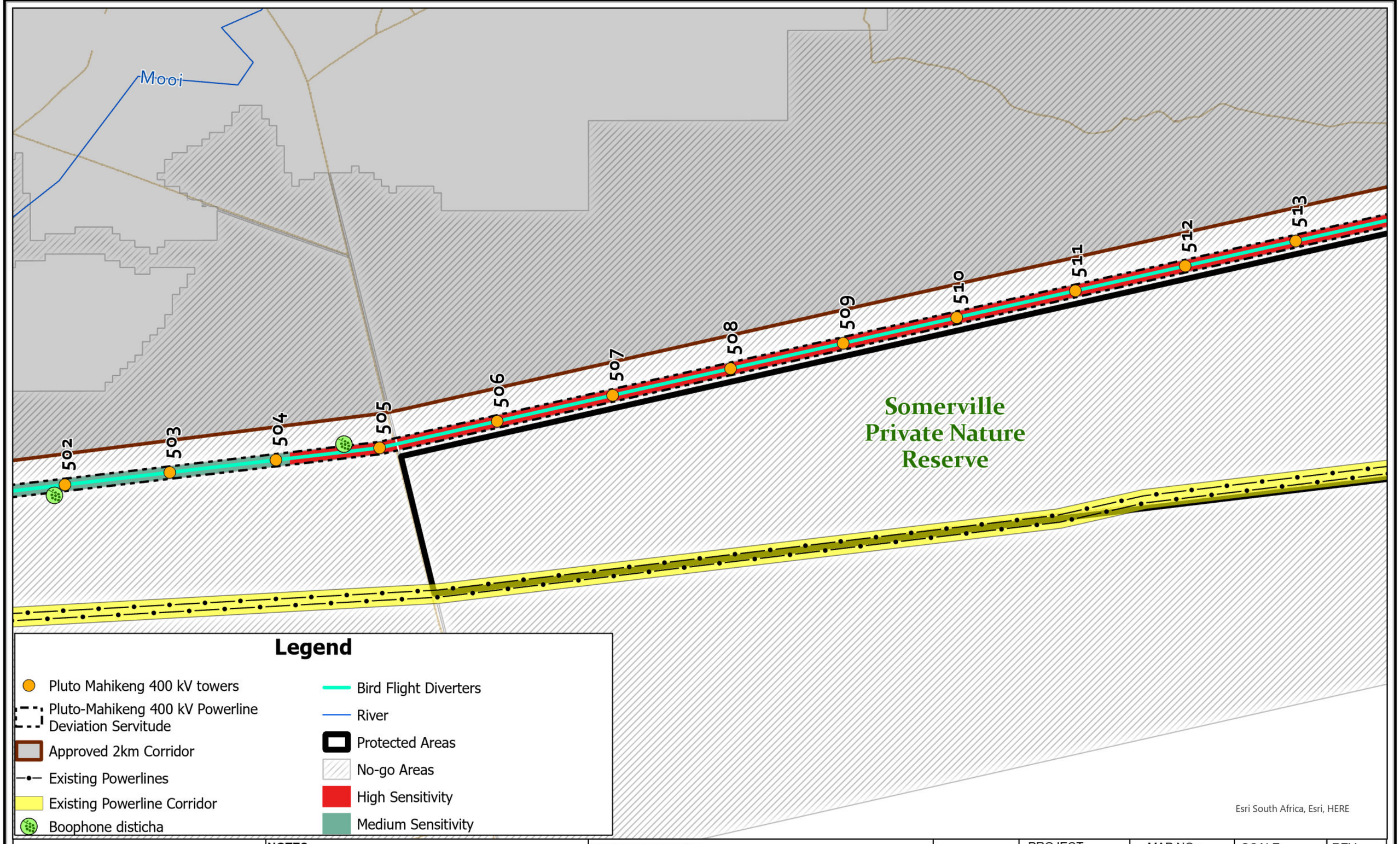
Access Road
Only established if no access tracks are available.

PROJECT	MAP NO.:	SCALE	REV.
Pluto_Dev	02	1:15,000	00
DRAWN BY	CHECKED BY	DATE	
BM	MM	June 2026	

0 0.17 0.34 0.69
km

Spatial Reference
GCS: GCS WGS 1984
Map Units: Degree

Source:
NGI (Topo),
Specialists,
Esri, NTCSA



PROPOSED PLUTO-MAHIKENG 400KV POWERLINE DEVIATIONS

SENSITIVITY MAP

NOTES

No-go Areas
These consists of areas within the Freshwater Buffers, Protected Areas, NPAES, CBA and ESA areas outside the servitude

High Sensitivity
These areas consist of CBA and NPAES Areas inside the servitude, where clearance will be at towers only.

Medium Sensitivity.
These areas are ESA areas and cultivated areas.

Existing Infrastructure
The Sommerville Private Nature Reserve; is traversed only by the existing authorised line, which is unaffected by this deviation.

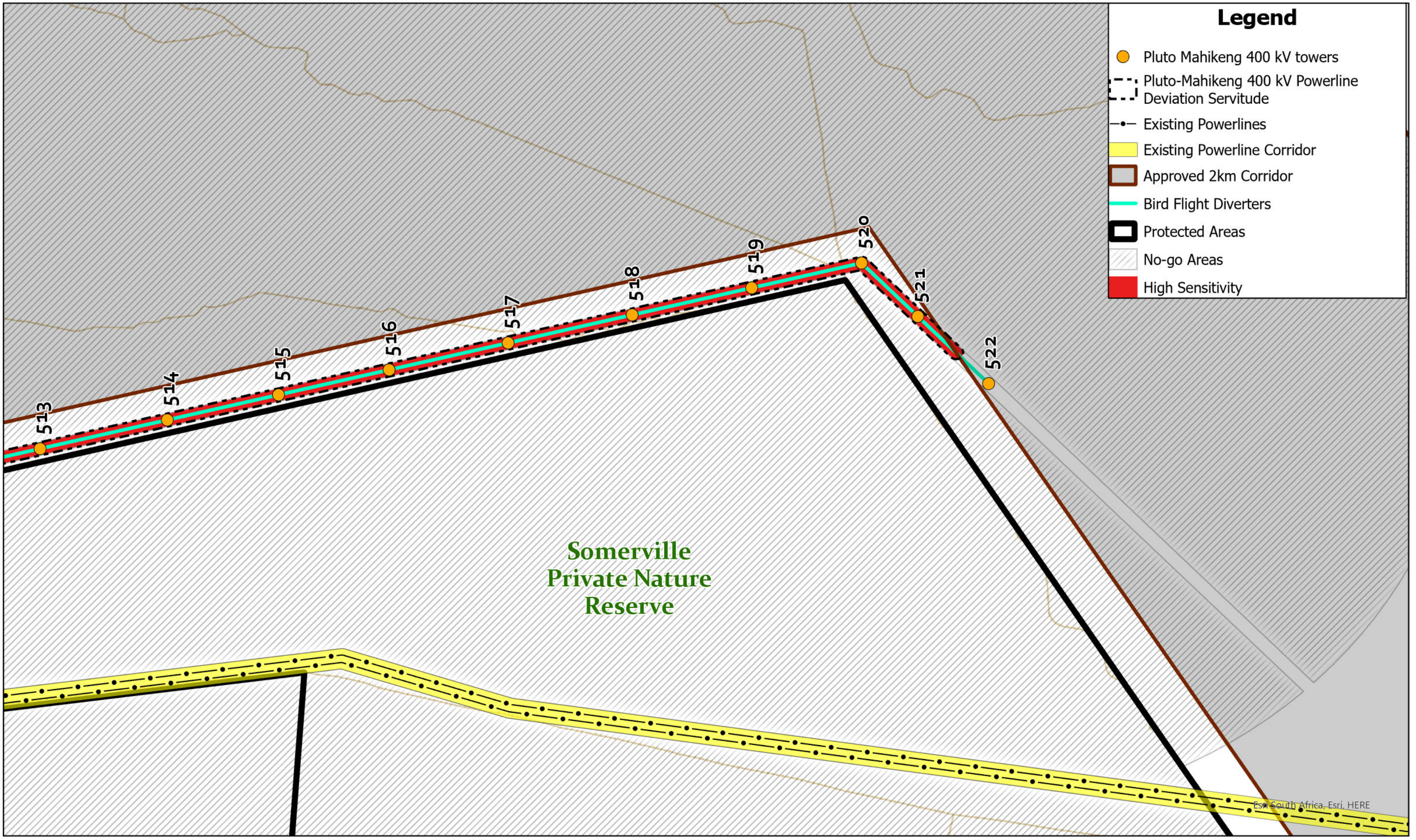
Access Road
Only established if no access tracks are available.

PROJECT	MAP NO.:	SCALE	REV.
Pluto_Dev	03	1:15,000	00
DRAWN BY	CHECKED BY	DATE	
BM	MM	June 2026	

0 0.2 0.3 0.7
km

Spatial Reference
GCS: GCS WGS 1984
Map Units: Degree

Source:
NGI (Topo), Specialists, Esri, NTCSA



PROPOSED PLUTO-MAHIKENG 400KV POWERLINE DEVIATIONS

SENSITIVITY MAP

NOTES

No-go Areas
These consists of areas within the Freshwater Buffers, Protected Areas, NPAES, CBA and ESA areas outside the servitude

High Sensitivity
These areas consist of CBA and NPAES Areas inside the servitude, where clearance will be at towers only.

Medium Sensitivity,
These areas are ESA areas and cultivated areas.

Existing Infrastructure
The Sommerville Private Nature Reserve; is traversed only by the existing authorised line, which is unaffected by this deviation.

Access Road
Only established if no access tracks are available.

PROJECT	MAP NO.:	SCALE	REV.
Pluto_Dev	04	1:15,000	00
DRAWN BY	CHECKED BY	DATE	
BM	MM	June 2026	

0 0.1 0.3 0.6
km

Spatial Reference
GCS: GCS WGS 1984
Map Units: Degree

Source: NGI (Topo), Specialists, Esri, NTCSA