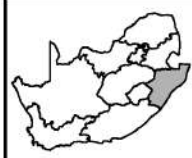


Legend

- Main roads
- Railway lines
- Rivers (NBA 2018)
- Waihoek Grid**
 - Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
 - Authorised Waihoek Substation (25ha) (DEA Ref: 14/12/16/3/3/2/654)
 - Existing Bloedrivier substation
- Proposed deviation**
 - Proposed new 88kV Waihoek Powerline alignment (25.5km)
 - Proposed grid corridor(400m)
 - Proposed Eskom onsite substation development footprint (110m x 110m)

Waihoek land parcels

- K253N0HT0000000006600000
- K253N0HT0000000006600060
- K253N0HT00000000066000120
- K253N0HT00000000066000130
- K253N0HT00000000083000030
- K253N0HT00000000083000050
- K253N0HT00000000083000080
- K253N0HT00000000083000090
- K253N0HT00000000083000100
- K253N0HT000000000119000020
- K253N0HT000000000119000040
- K253N0HT000000000119000050
- K253N0HT000000000119000070
- K253N0HT000000000150000030
- K253N0HT000000000152000010
- K253N0HT000000000152000020
- K253N0HT000000000152000030
- K253N0HT000000000152000090
- K253N0HT000000000152000100
- K253N0HT000000000173000040
- K253N0HT000000000173000060
- K253N0HT000000000173000090
- K253N0HT00000000017068000010
- K253N0HT00000000017068000020
- K253N0HT00000000017068000040
- K253N0HT00000000017068000050



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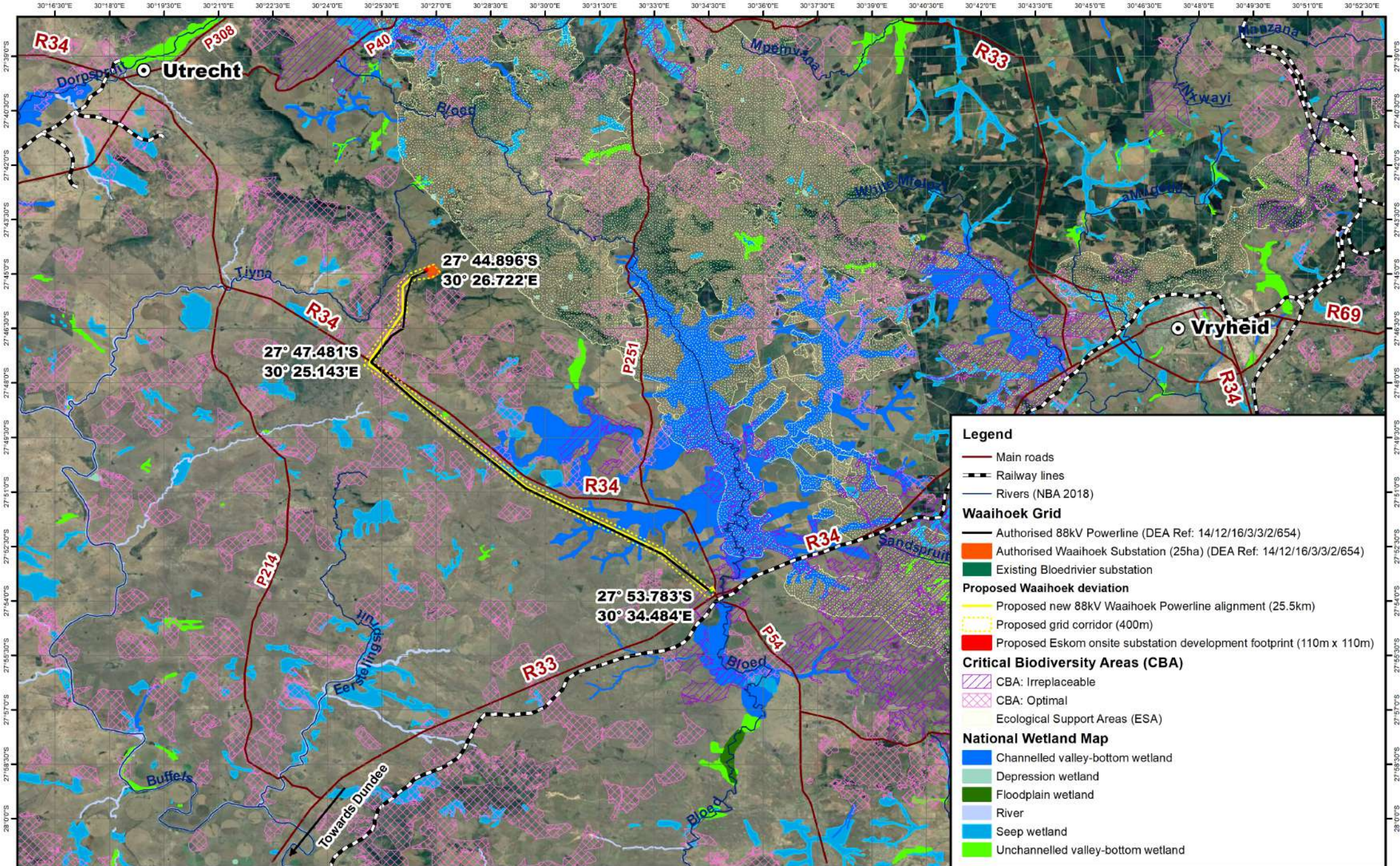
ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waihoek Powerline Deviation Basic Assessment
KwaZulu-Natal.

Amajuba District Municipality
 Emadlangeni Local Municipality

1:50 000 Topographic locality map

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:80 000
 Date: August 2022





Legend

- Main roads
- Railway lines
- Rivers (NBA 2018)

Waaihoek Grid

- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
- Authorised Waaihoek Substation (25ha) (DEA Ref: 14/12/16/3/3/2/654)
- Existing Bloedrivier substation

Proposed Waaihoek deviation

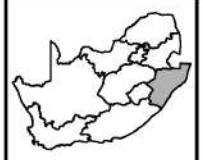
- Proposed new 88kV Waaihoek Powerline alignment (25.5km)
- Proposed grid corridor (400m)
- Proposed Eskom onsite substation development footprint (110m x 110m)

Critical Biodiversity Areas (CBA)

- CBA: Irreplaceable
- CBA: Optimal
- Ecological Support Areas (ESA)

National Wetland Map

- Channelled valley-bottom wetland
- Depression wetland
- Floodplain wetland
- River
- Seep wetland
- Unchannelled valley-bottom wetland



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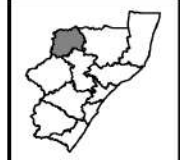
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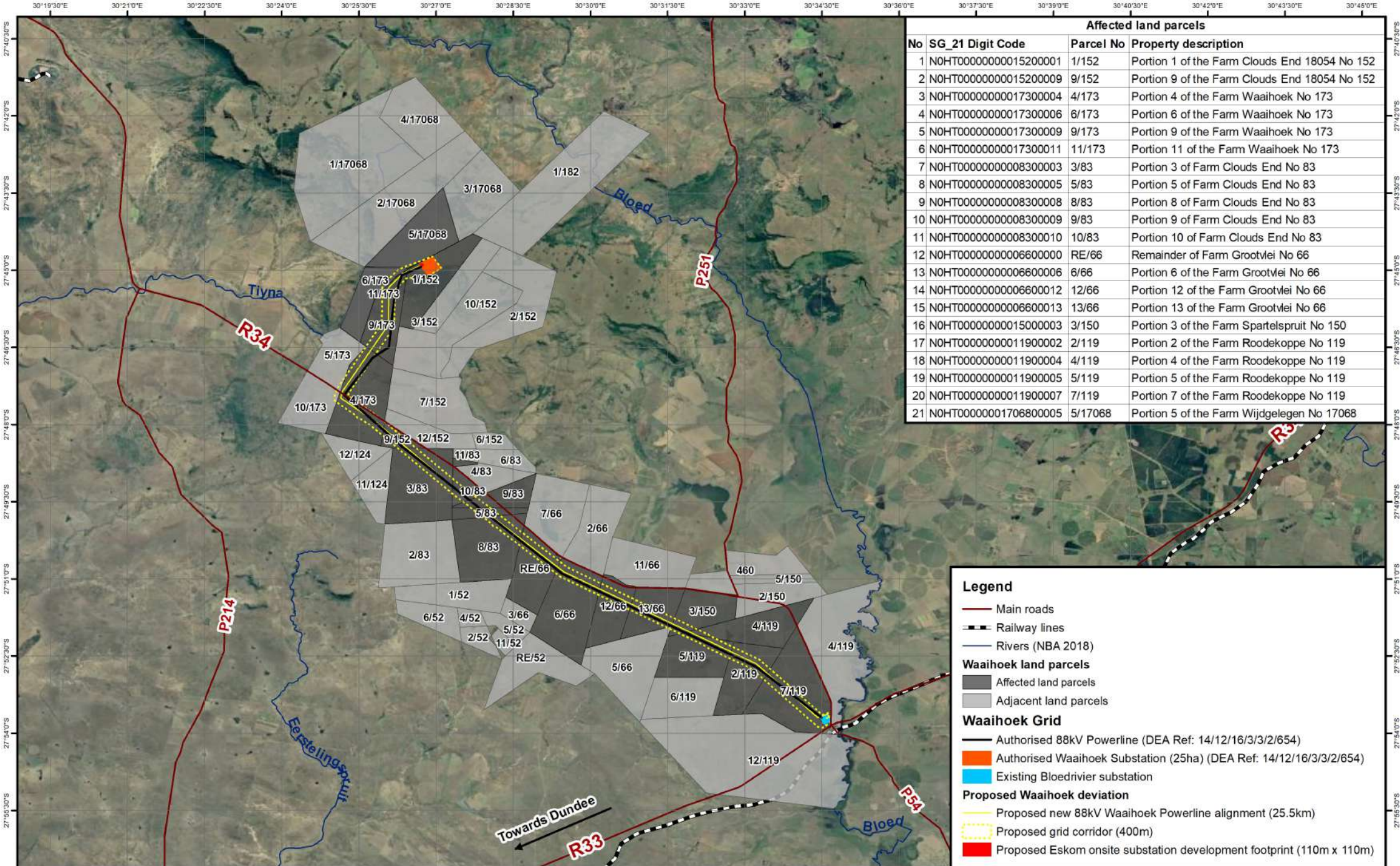
ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic Assessment, KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Locality map

Prevailing wind direction:
 West
 From 4 April to 4 October (6 months)
 East
 From 4 October to 4 April (6 months)

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:170 000
 Date: August 2022





Affected land parcels			
No	SG_21 Digit Code	Parcel No	Property description
1	NOHT00000000015200001	1/152	Portion 1 of the Farm Clouds End 18054 No 152
2	NOHT00000000015200009	9/152	Portion 9 of the Farm Clouds End 18054 No 152
3	NOHT00000000017300004	4/173	Portion 4 of the Farm Waaihoek No 173
4	NOHT00000000017300006	6/173	Portion 6 of the Farm Waaihoek No 173
5	NOHT00000000017300009	9/173	Portion 9 of the Farm Waaihoek No 173
6	NOHT00000000017300011	11/173	Portion 11 of the Farm Waaihoek No 173
7	NOHT00000000008300003	3/83	Portion 3 of Farm Clouds End No 83
8	NOHT00000000008300005	5/83	Portion 5 of Farm Clouds End No 83
9	NOHT00000000008300008	8/83	Portion 8 of Farm Clouds End No 83
10	NOHT00000000008300009	9/83	Portion 9 of Farm Clouds End No 83
11	NOHT00000000008300010	10/83	Portion 10 of Farm Clouds End No 83
12	NOHT00000000006600000	RE/66	Remainder of Farm Grootvlei No 66
13	NOHT00000000006600006	6/66	Portion 6 of the Farm Grootvlei No 66
14	NOHT00000000006600012	12/66	Portion 12 of the Farm Grootvlei No 66
15	NOHT00000000006600013	13/66	Portion 13 of the Farm Grootvlei No 66
16	NOHT00000000015000003	3/150	Portion 3 of the Farm Spartelspruit No 150
17	NOHT00000000011900002	2/119	Portion 2 of the Farm Roodekoppe No 119
18	NOHT00000000011900004	4/119	Portion 4 of the Farm Roodekoppe No 119
19	NOHT00000000011900005	5/119	Portion 5 of the Farm Roodekoppe No 119
20	NOHT00000000011900007	7/119	Portion 7 of the Farm Roodekoppe No 119
21	NOHT00000000170680005	5/17068	Portion 5 of the Farm Wijdgelegen No 17068

Legend

- Main roads
- Railway lines
- Rivers (NBA 2018)

Waihoek land parcels

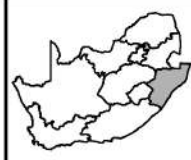
- Affected land parcels
- Adjacent land parcels

Waihoek Grid

- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
- Authorised Waihoek Substation (25ha) (DEA Ref: 14/12/16/3/3/2/654)
- Existing Bloedrivier substation

Proposed Waihoek deviation

- Proposed new 88kV Waihoek Powerline alignment (25.5km)
- Proposed grid corridor (400m)
- Proposed Eskom onsite substation development footprint (110m x 110m)



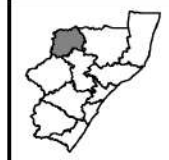
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Nala Environmental Consulting Firm

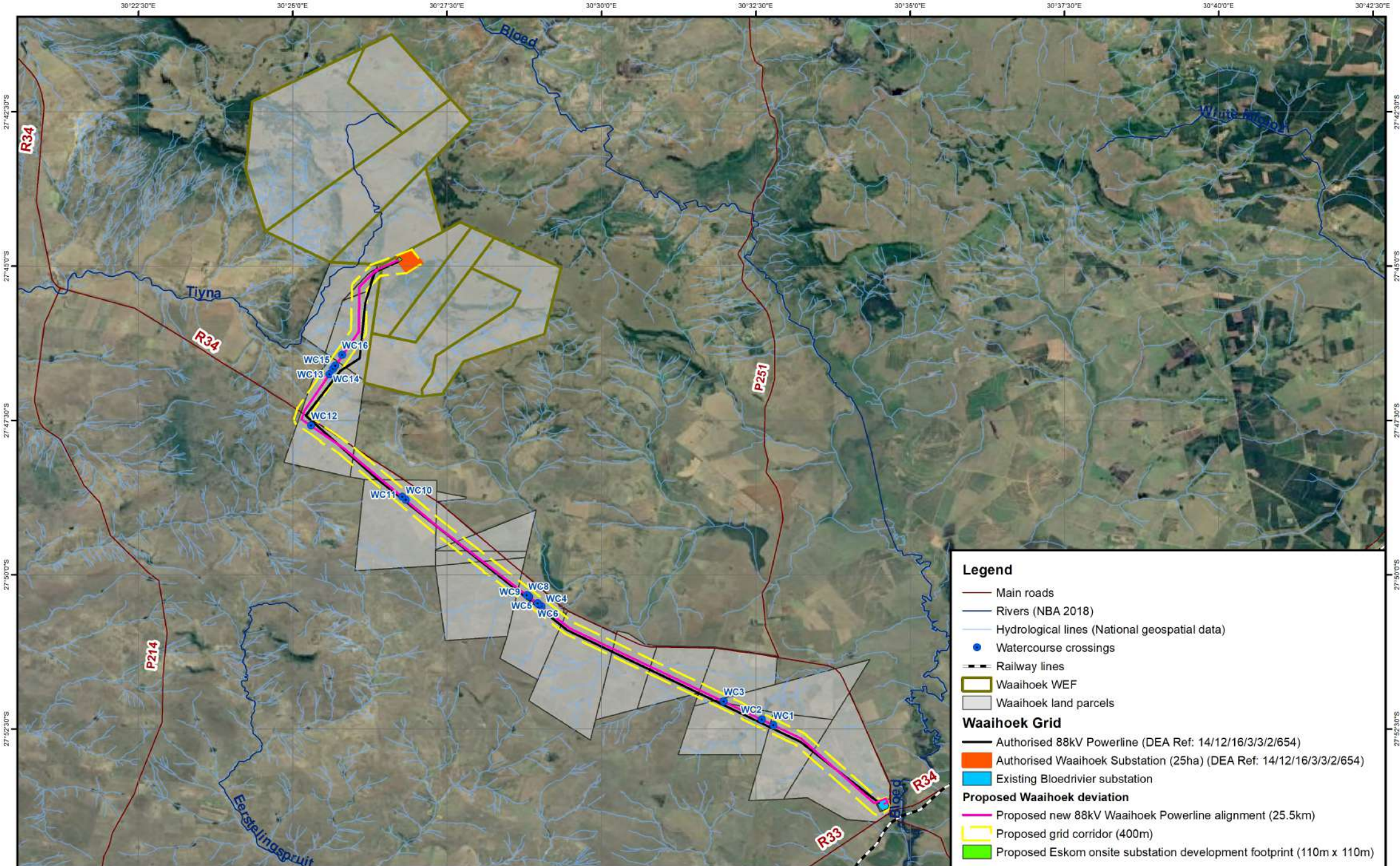
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ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waihoek Powerline Deviation Basic
Assessment, KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Landowner map

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:120 000
 Date: August 2022





Legend

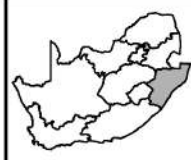
- Main roads
- Rivers (NBA 2018)
- Hydrological lines (National geospatial data)
- Watercourse crossings
- Railway lines
- ▭ Waaiohoek WEF
- ▭ Waaiohoek land parcels

Waaiohoek Grid

- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
- ▭ Authorised Waaiohoek Substation (25ha) (DEA Ref: 14/12/16/3/3/2/654)
- ▭ Existing Bloedrivier substation

Proposed Waaiohoek deviation

- Proposed new 88kV Waaiohoek Powerline alignment (25.5km)
- ▭ Proposed grid corridor (400m)
- ▭ Proposed Eskom onsite substation development footprint (110m x 110m)



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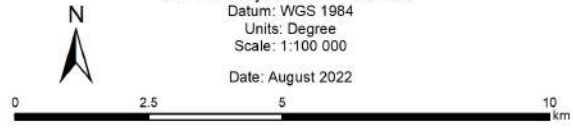
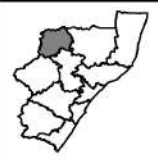
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Ecofluence Consulting

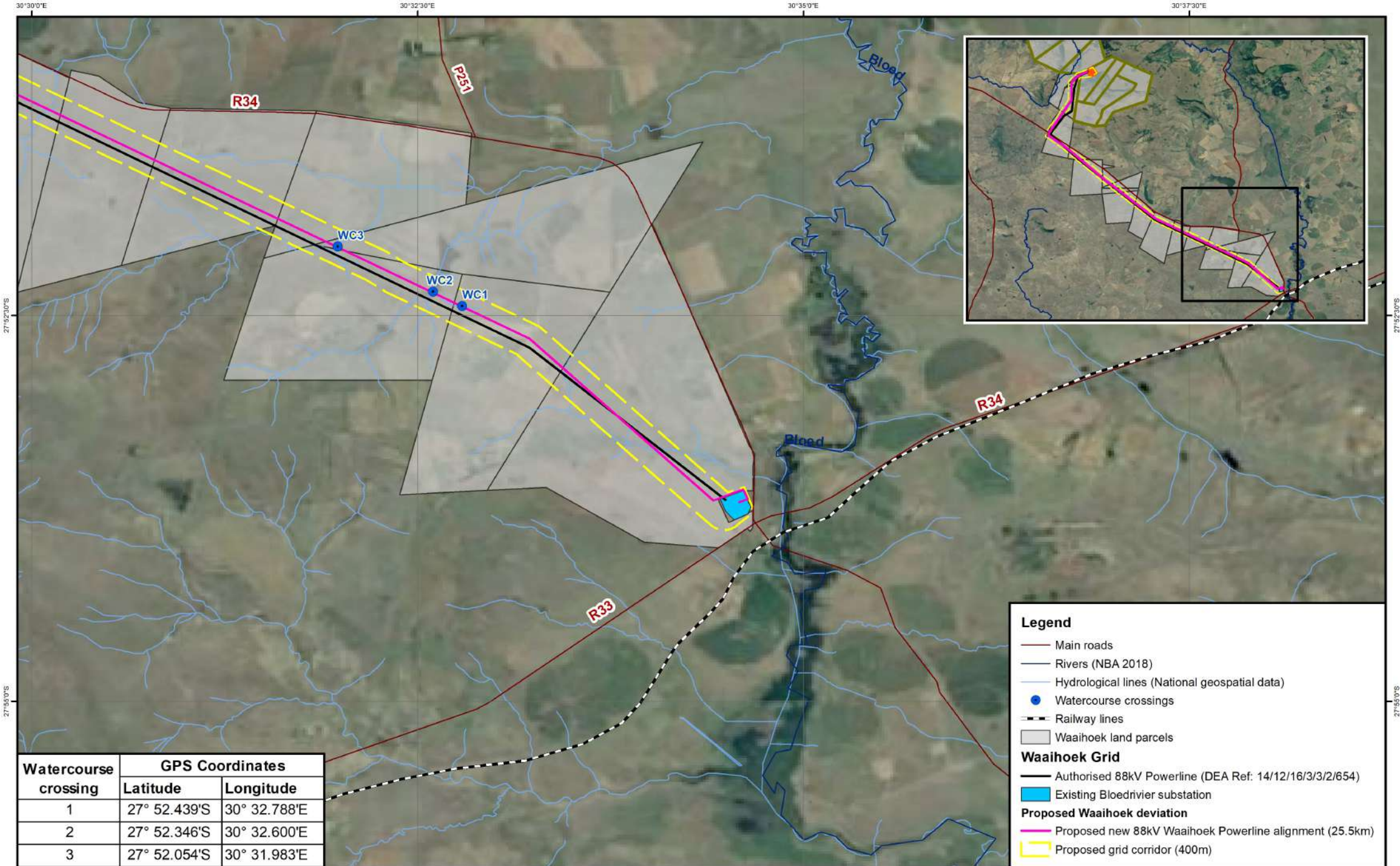


ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaiohoek Powerline Deviation Basic Assessment,
KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Overall layout map

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:100 000
 Date: August 2022



Watercourse crossing	GPS Coordinates	
	Latitude	Longitude
1	27° 52.439'S	30° 32.788'E
2	27° 52.346'S	30° 32.600'E
3	27° 52.054'S	30° 31.983'E

Legend

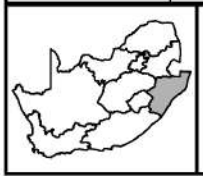
- Main roads
- Rivers (NBA 2018)
- Hydrological lines (National geospatial data)
- Watercourse crossings
- Railway lines
- Waaihoek land parcels

Waaihoek Grid

- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
- Existing Bloedrivier substation

Proposed Waaihoek deviation

- Proposed new 88kV Waaihoek Powerline alignment (25.5km)
- Proposed grid corridor (400m)



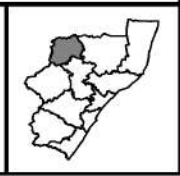
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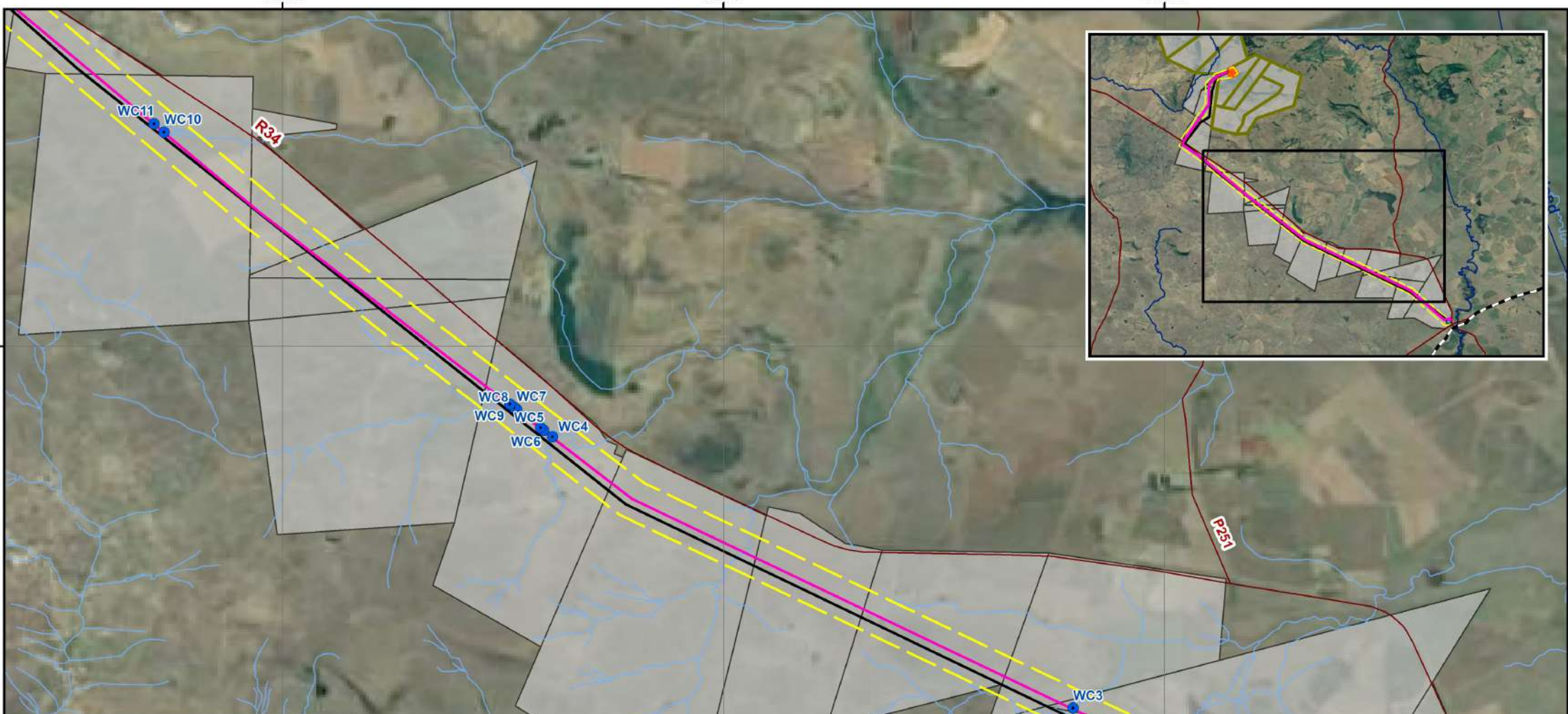
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ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic Assessment,
KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Layout map: Grid section WC1 - WC3

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:40 000
 Date: August 2022





Watercourse crossing	GPS Coordinates	
	Latitude	Longitude
4	27° 50.515'S	30° 29.030'E
5	27° 50.477'S	30° 28.982'E
6	27° 50.462'S	30° 28.964'E
7	27° 50.359'S	30° 28.829'E
8	27° 50.347'S	30° 28.814'E
9	27° 50.330'S	30° 28.790'E
10	27° 48.787'S	30° 26.829'E
11	27° 48.739'S	30° 26.772'E

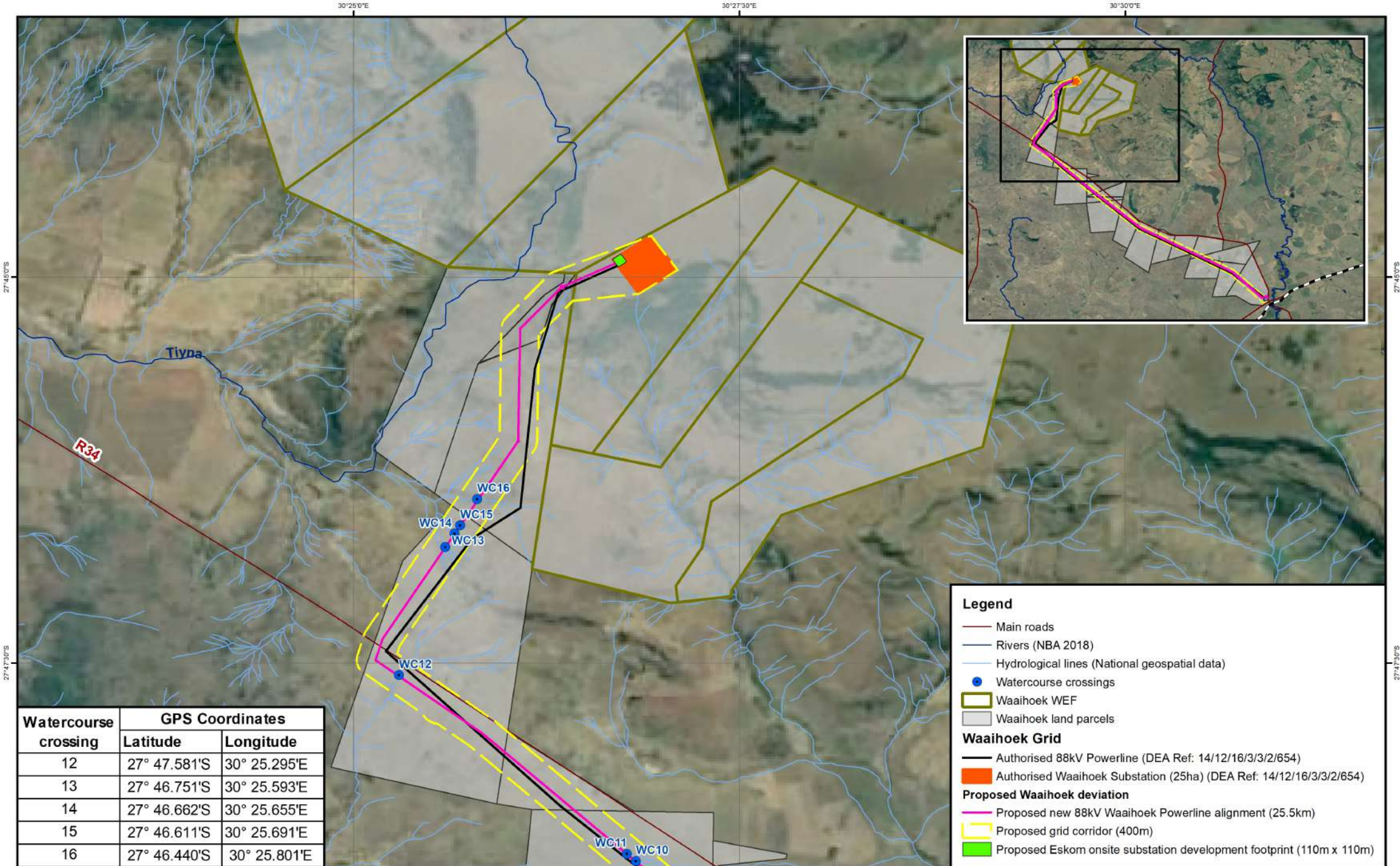
Legend

- Main roads
- Rivers (NBA 2018)
- Hydrological lines (National geospatial data)
- Watercourse crossings
- Waaihoek land parcels

Waaihoek Grid

- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
- Proposed Waaihoek deviation
- Proposed new 88kV Waaihoek Powerline alignment (25.5km)
- Proposed grid corridor (400m)

	<p>Prepared for: Nala Environmental Consulting Firm</p>	<p>Prepared by: Ecofluence Consulting</p>	<p>ENVIRONMENTAL IMPACT ASSESSMENT Proposed Waaihoek Powerline Deviation Basic Assessment, KwaZulu-Natal.</p> <p>Amajuba District Municipality Emadlangeni Local Municipality</p> <p>Layout map: Grid section WC4 - WC11</p>	<p>Coordinate System: GCS WGS 1984 Datum: WGS 1984 Units: Degree Scale: 1:40 000 Date: August 2022</p>	
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Watercourse crossing	GPS Coordinates	
	Latitude	Longitude
12	27° 47.581'S	30° 25.295'E
13	27° 46.751'S	30° 25.593'E
14	27° 46.662'S	30° 25.655'E
15	27° 46.611'S	30° 25.691'E
16	27° 46.440'S	30° 25.801'E

Legend

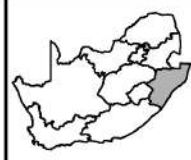
- Main roads
- Rivers (NBA 2018)
- Hydrological lines (National geospatial data)
- Watercourse crossings
- Waaihoek WEF
- Waaihoek land parcels

Waaihoek Grid

- Authorized 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
- Authorized Waaihoek Substation (25ha) (DEA Ref: 14/12/16/3/3/2/654)

Proposed Waaihoek deviation

- Proposed new 88kV Waaihoek Powerline alignment (25.5km)
- Proposed grid corridor (400m)
- Proposed Eskom onsite substation development footprint (110m x 110m)



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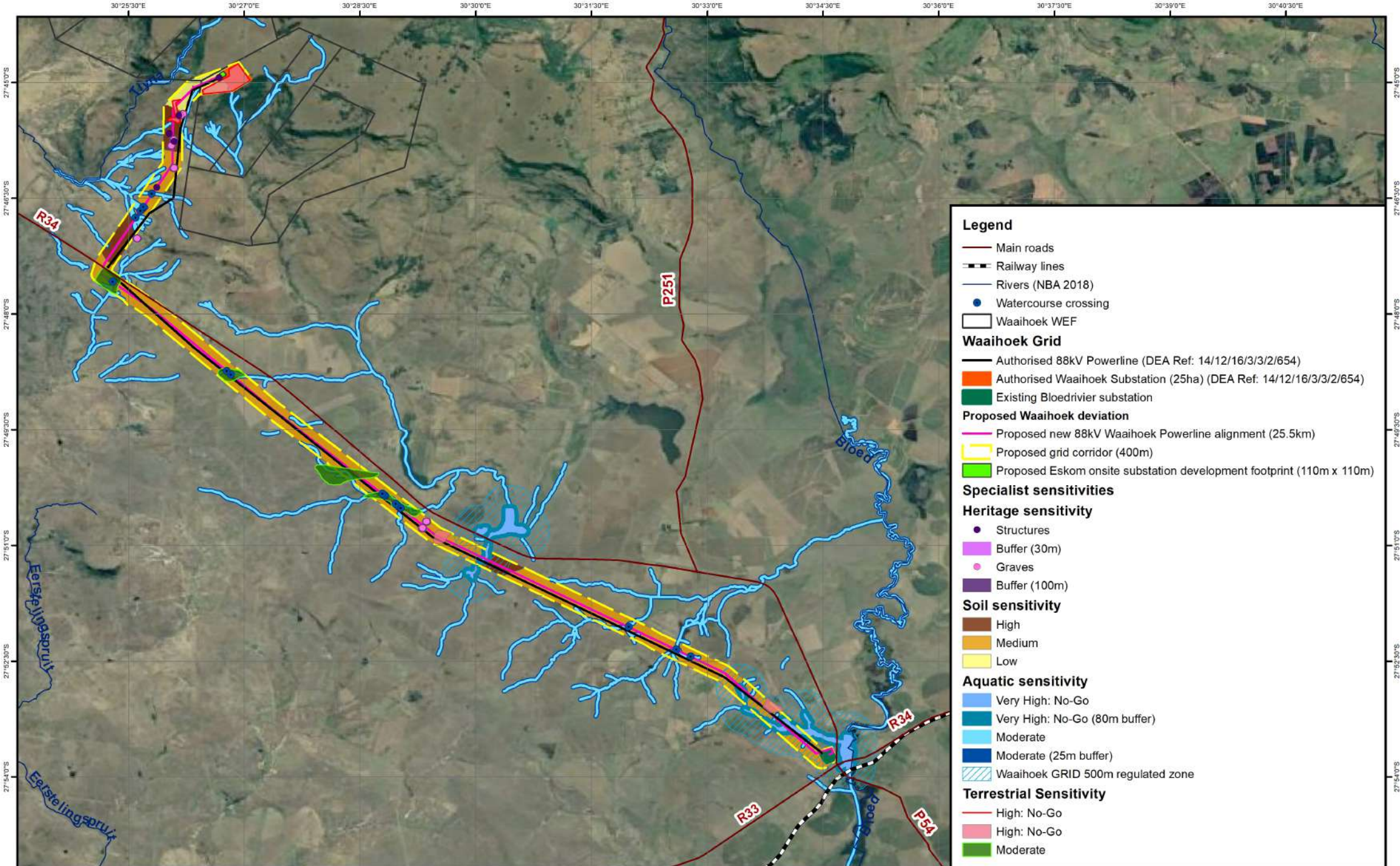
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ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic Assessment,
KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Layout map: Grid section WC12 - WC16

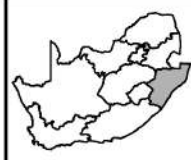
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 Datum: WGS 1984
 Units: Degree
 Scale: 1:40 000
 Date: August 2022





Legend

- Main roads
- Railway lines
- Rivers (NBA 2018)
- Watercourse crossing
- Waaihoek WEF
- Waaihoek Grid**
- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
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- Proposed new 88kV Waaihoek Powerline alignment (25.5km)
- Proposed grid corridor (400m)
- Proposed Eskom onsite substation development footprint (110m x 110m)
- Specialist sensitivities**
- Heritage sensitivity**
- Structures
- Buffer (30m)
- Graves
- Buffer (100m)
- Soil sensitivity**
- High
- Medium
- Low
- Aquatic sensitivity**
- Very High: No-Go
- Very High: No-Go (80m buffer)
- Moderate
- Moderate (25m buffer)
- Waaihoek GRID 500m regulated zone
- Terrestrial Sensitivity**
- High: No-Go
- High: No-Go
- Moderate



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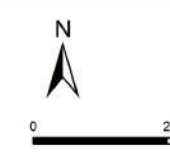


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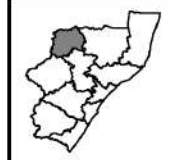


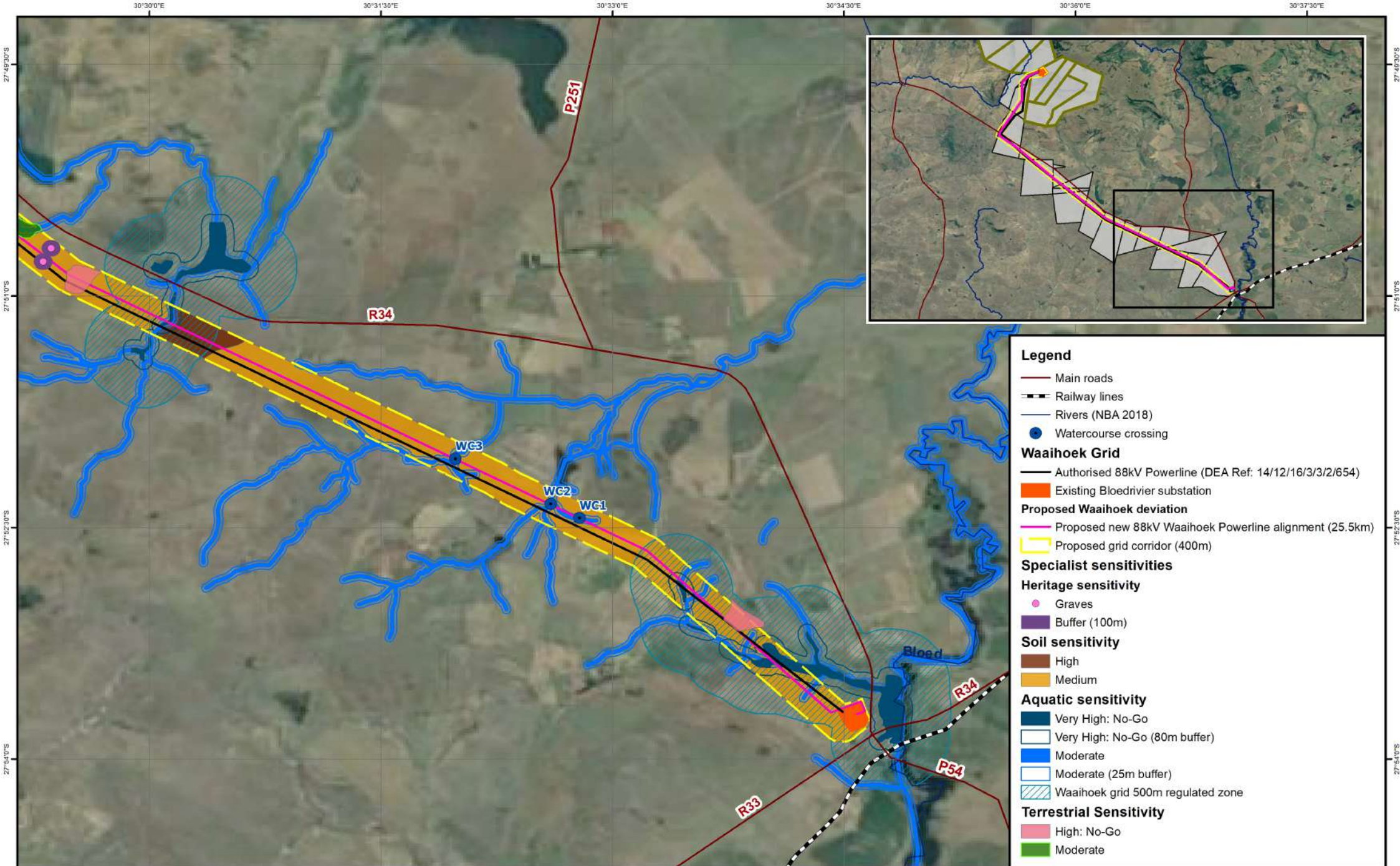
ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic
Assessment, KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Sensitivity map

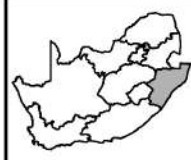


Coordinate System: GCS WGS 1984
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 Scale: 1:80 000
 Date: August 2022





- Legend**
- Main roads
 - - - Railway lines
 - Rivers (NBA 2018)
 - Watercourse crossing
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- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
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 - Proposed grid corridor (400m)
- Specialist sensitivities**
- Heritage sensitivity**
- Graves
 - Buffer (100m)
- Soil sensitivity**
- High
 - Medium
- Aquatic sensitivity**
- Very High: No-Go
 - Very High: No-Go (80m buffer)
 - Moderate
 - Moderate (25m buffer)
 - Waaihoek grid 500m regulated zone
- Terrestrial Sensitivity**
- High: No-Go
 - Moderate



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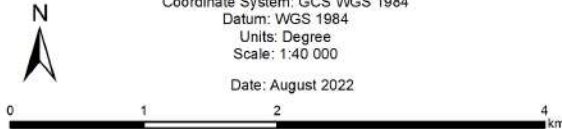
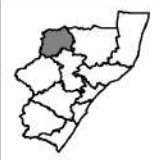
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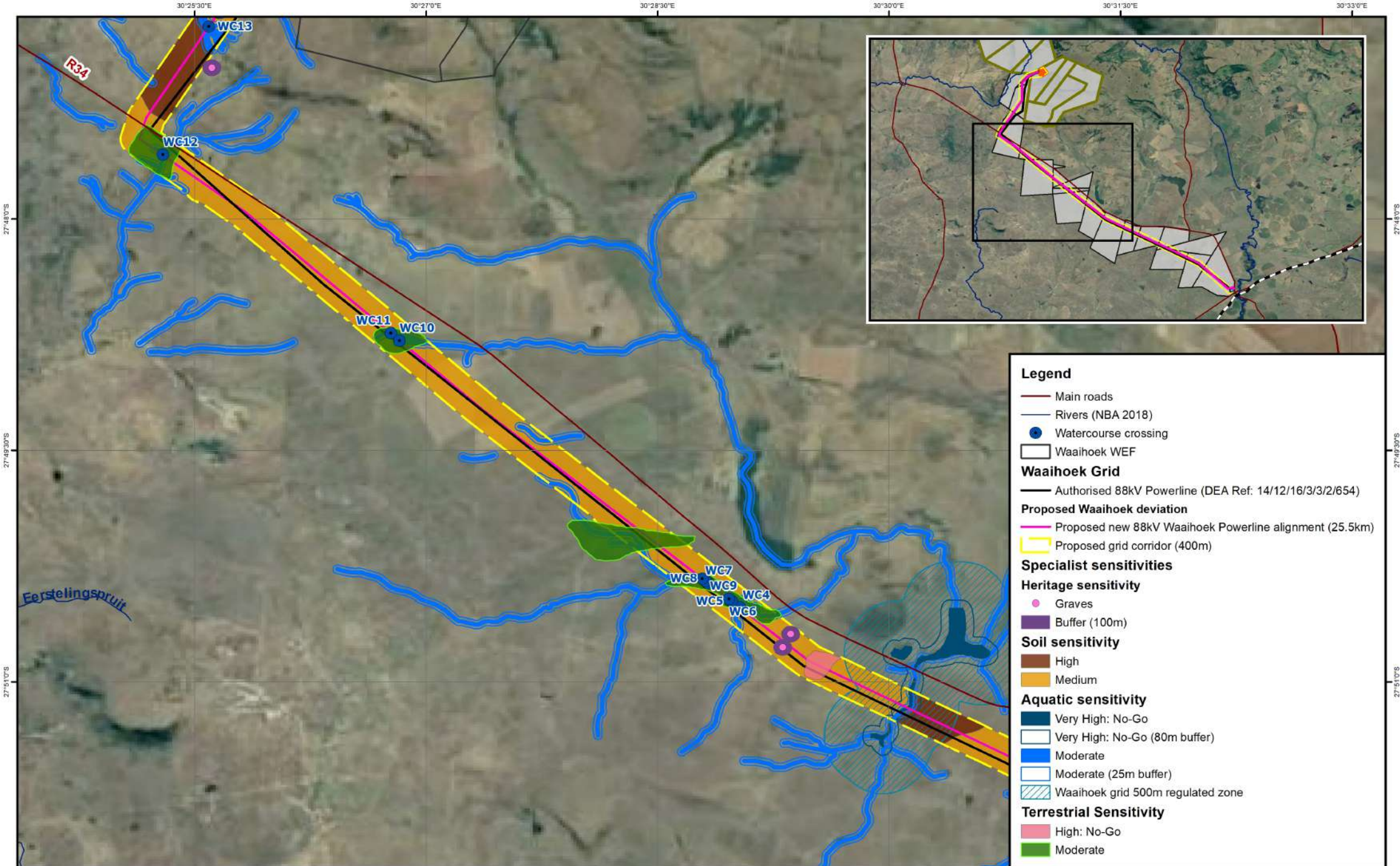


ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic Assessment, KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

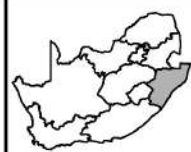
Sensitivity map: Grid section WC1 - WC3

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:40 000
 Date: August 2022



- Legend**
- Main roads
 - Rivers (NBA 2018)
 - Watercourse crossing
 - Waaihoek WEF
- Waaihoek Grid**
- Authorised 88kV Powerline (DEA Ref: 14/12/16/3/3/2/654)
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- Heritage sensitivity**
- Graves
 - Buffer (100m)
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 - Medium
- Aquatic sensitivity**
- Very High: No-Go
 - Very High: No-Go (80m buffer)
 - Moderate
 - Moderate (25m buffer)
 - Waaihoek grid 500m regulated zone
- Terrestrial Sensitivity**
- High: No-Go
 - Moderate



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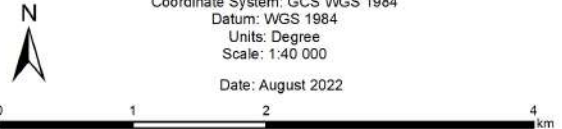
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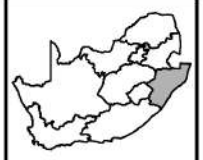
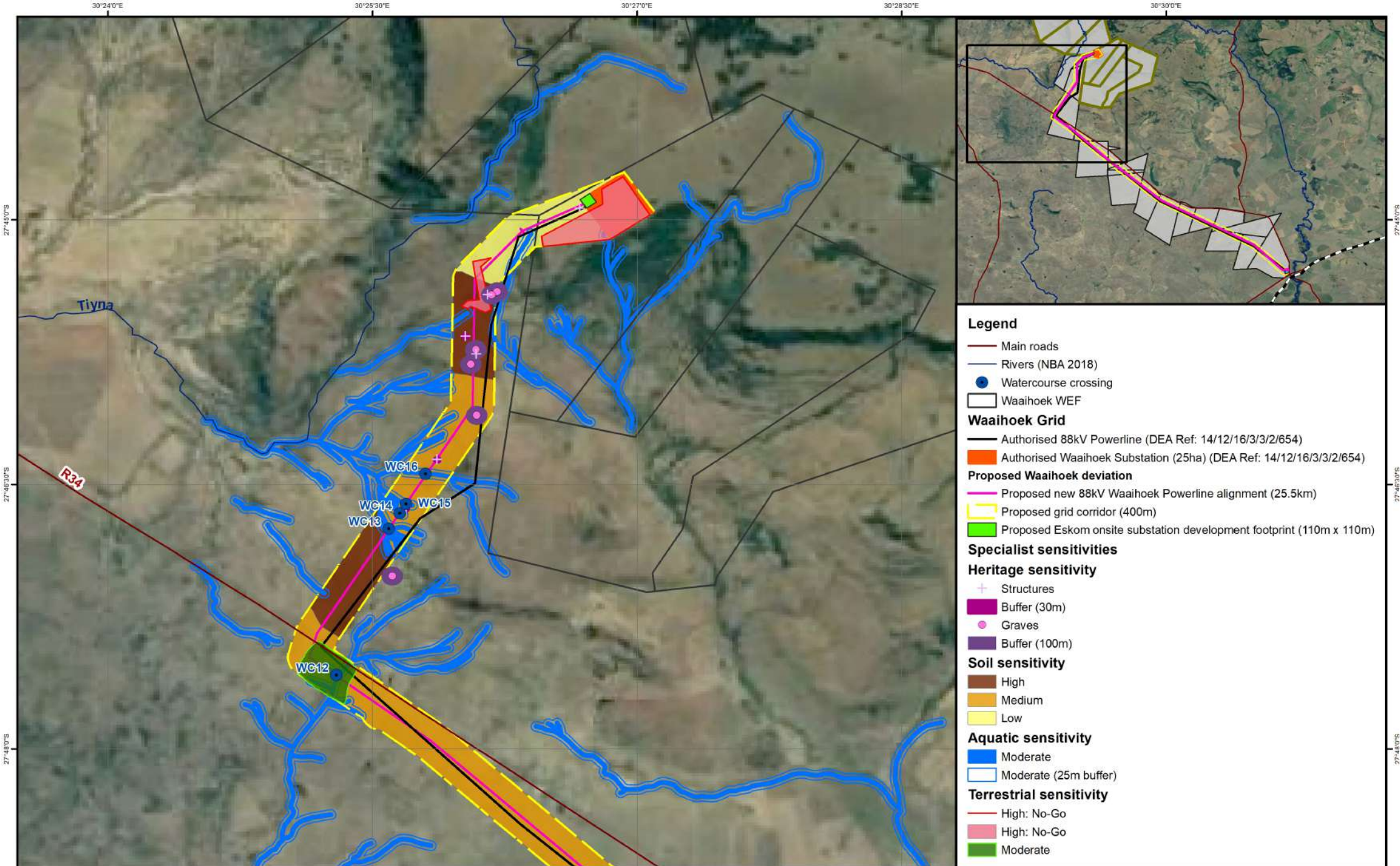


ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic Assessment, KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Sensitivity map: Grid section WC4 - WC11

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:40 000
 Date: August 2022



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ENVIRONMENTAL CONSULTING FIRM

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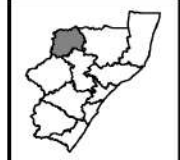
ecofluence CONSULTING

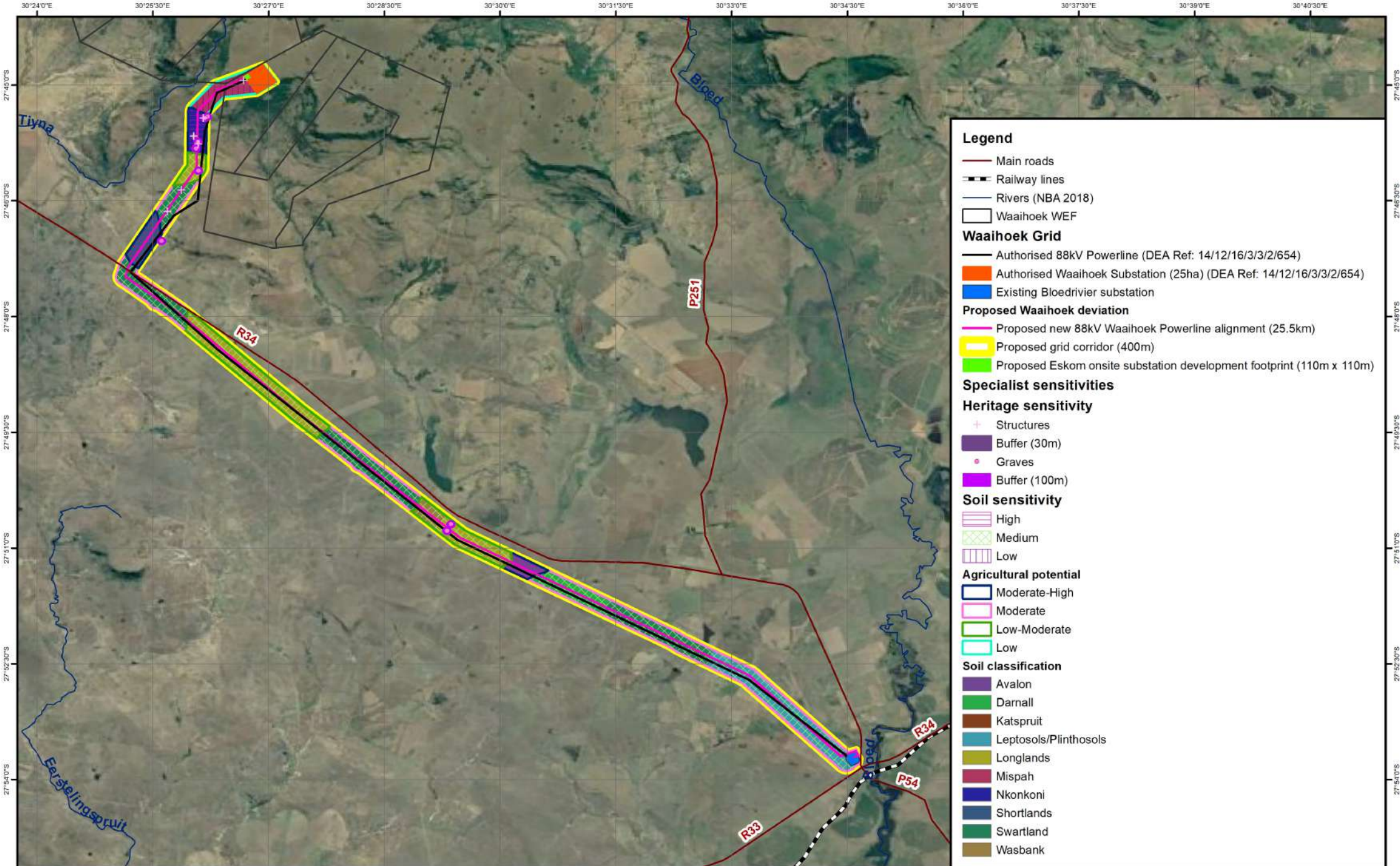
ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic Assessment, KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Sensitivity map: Grid section WC12 - WC16

N

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:35 000
 Date: August 2022



Legend

- Main roads
- Railway lines
- Rivers (NBA 2018)
- Waaihoek WEF

Waaihoek Grid

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- Proposed grid corridor (400m)
- Proposed Eskom onsite substation development footprint (110m x 110m)

Specialist sensitivities

Heritage sensitivity

- Structures
- Buffer (30m)
- Graves
- Buffer (100m)

Soil sensitivity

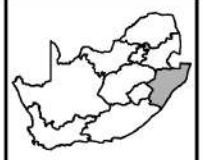
- High
- Medium
- Low

Agricultural potential

- Moderate-High
- Moderate
- Low-Moderate
- Low

Soil classification

- Avalon
- Darnall
- Katspruit
- Leptosols/Plinthosols
- Longlands
- Mispah
- Nkonkoni
- Shortlands
- Swartland
- Wasbank



Prepared for:
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ENVIRONMENTAL IMPACT ASSESSMENT
Proposed Waaihoek Powerline Deviation Basic Assessment, KwaZulu-Natal.
 Amajuba District Municipality
 Emadlangeni Local Municipality

Soil classification and land capability sensitivity map

Coordinate System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Scale: 1:120 000
 Date: August 2022

