

## **Appendix 1.3**

### **CONSTRAINTS MAP AND OTHER STATUS QUO MAPPING**

## **List of Maps:**

**Figure 1: Constraints Map (CNdV)**

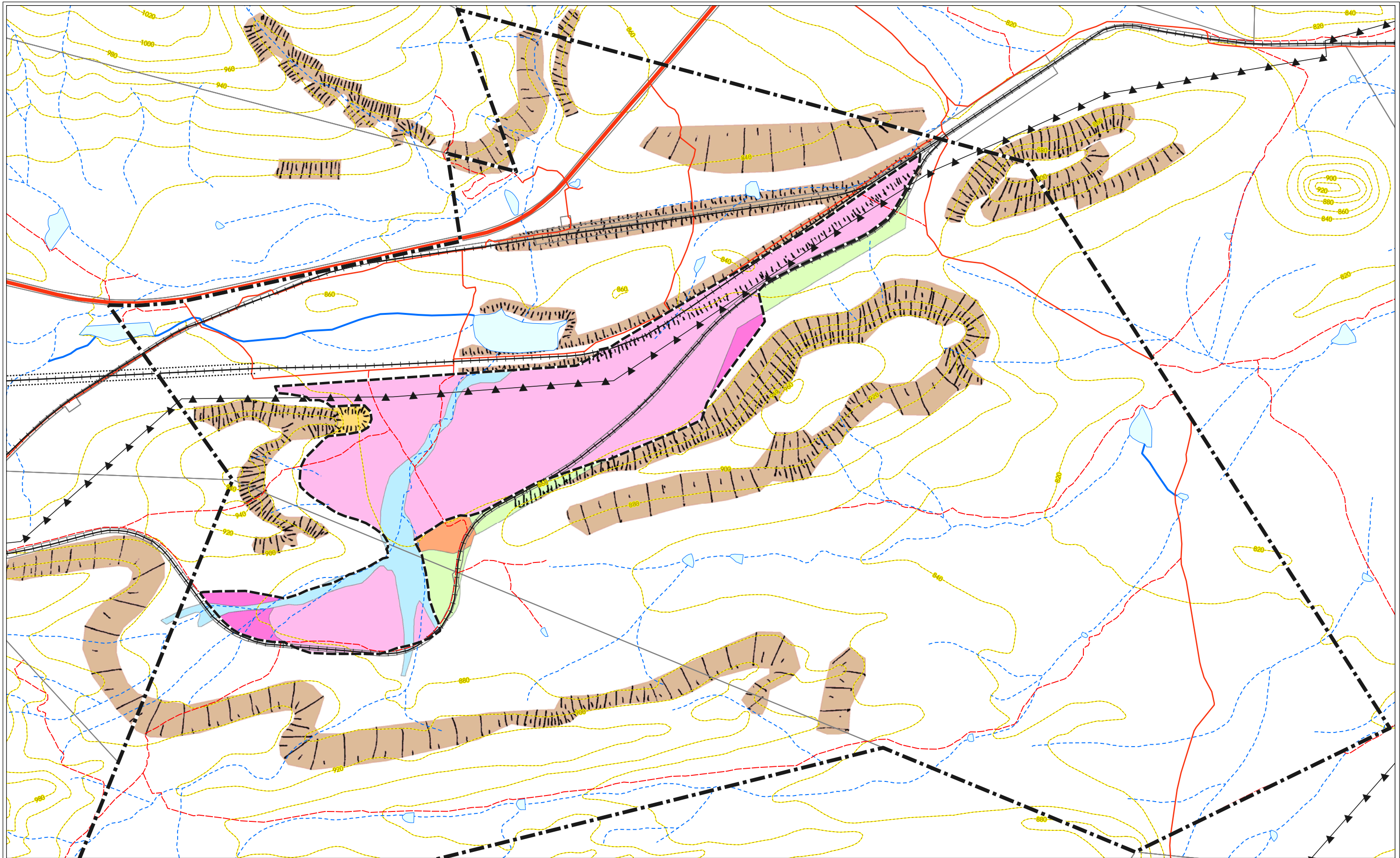
**Figure 2: Slope Analysis (CNdV)**

**Figure 3: Agricultural Areas**

**Figure 4: Critical Biodiversity Areas**

**Figure 5: Regional Agricultural Areas**

**Figure 6: Regional Ecstatus**



**Key:**

- Study Cadastral Border
- Cadastral (SG 2009)
- Railway Line
- Tunnel
- Power Line
- 20m Contours
- Ridge Areas

**Proposed New Site Area**

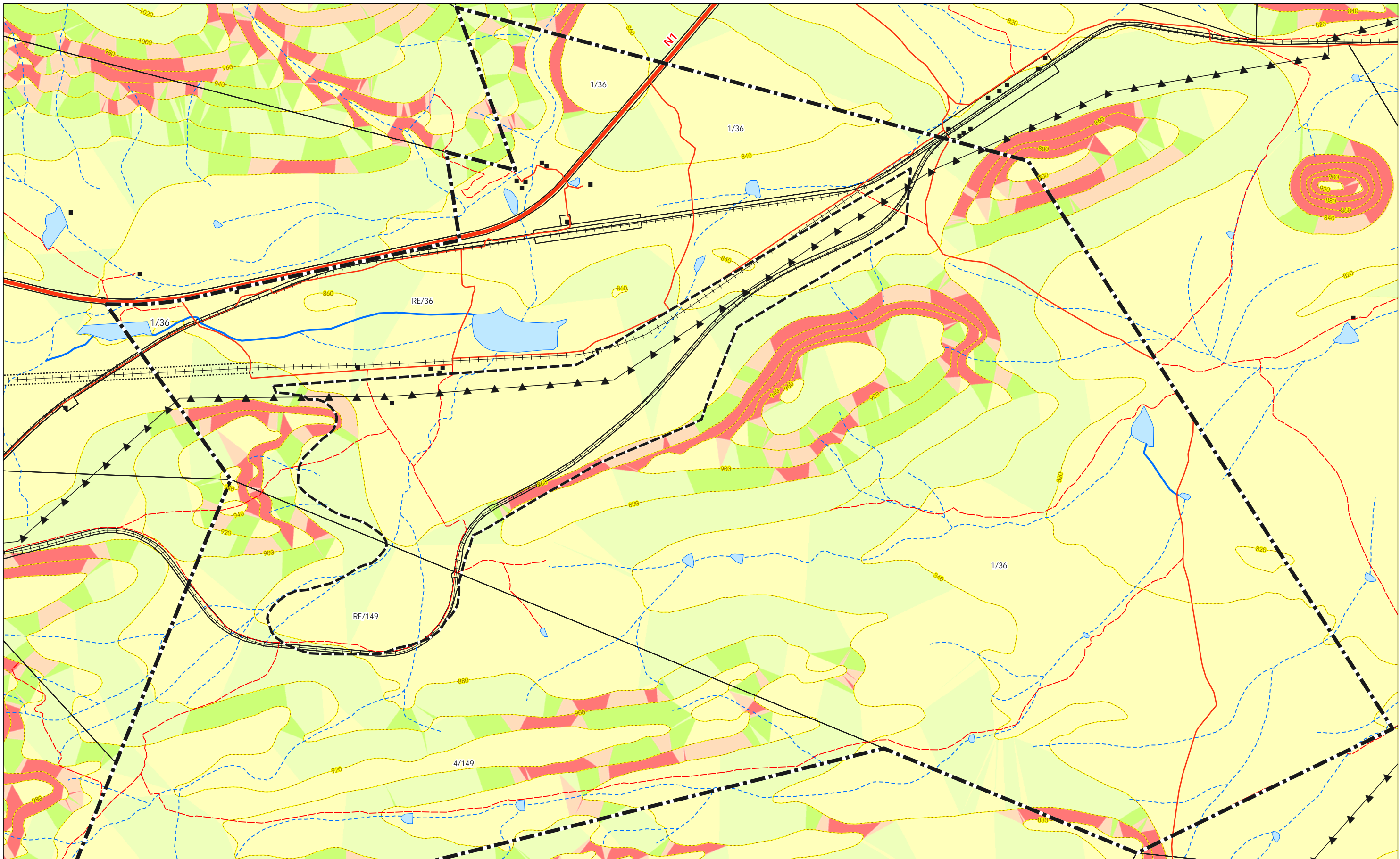
- Proposed New Site Border
- Original Area
- New Areas
- Exclude - Alluvium
- Exclude - Ridge
- Exclude - Rocky + Dam
- Exclude - Sensitive Vegetation

Areas	Area Ha
From Original Area	205
New Areas	10
<b>New Site Area:</b>	<b>215</b>
Exclude - Alluvium	22
Exclude - Ridge	3
Exclude - Rocky + Dam	5
Exclude - Sensitive Vegetation	24
<b>Total Excluded Areas</b>	<b>53</b>

<b>New Site Area</b>	<b>21</b>
<b>Touwsrivier Solar</b>	
Scale at A3 1:20,000	

Source: Base - Surveys + Mapping





**Key:**

- Study Cadastral Border
- Proposed Site
- Cadastral (SG 2009)
- Railway Line
- Tunnel
- Power Line

**Roads**

- National Route
- Arterial Route
- Main Road
- Secondary Road
- Street + Other Road
- Track + Footpath

**Rivers**

- Perennial Rivers
- Non-Perennial Rivers
- Canals
- Inland Water

- 20m Contours
- Buildings

**Slope**

- 0 - 1:20 (0-5%)
- 1:20 - 1:6.6 (5-15%)
- 1:15 - 1:5 (15-20%)
- 1:5 - 1:4 (20-25%)
- >1:4 (> 25%)

Terrain analysis derived from 20m contours.

**Slope Analysis**

**Touwsrivier Solar**




Scale at A3  
1:20,000

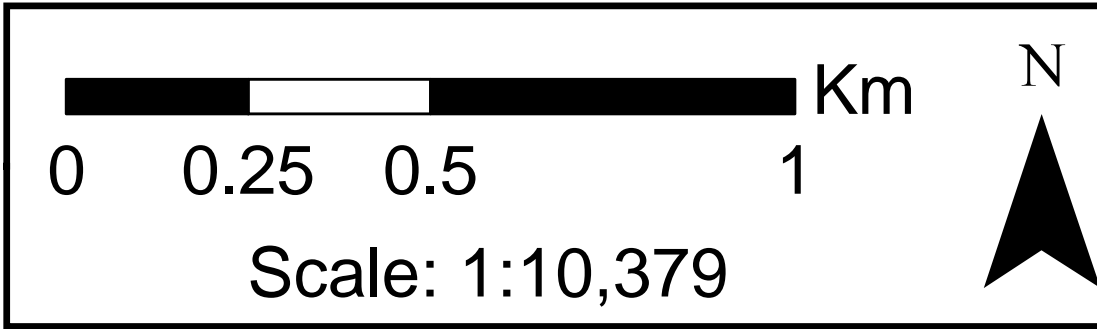
10

Source: Base - Surveys + Mapping





- Legend**
-  Proposed Site
  -  500m Buffer around Site
  -  Cultivated Land (Irrigated)



Client: CPV Power Plant No. 1 (Pty) Ltd  
Date: April 2011

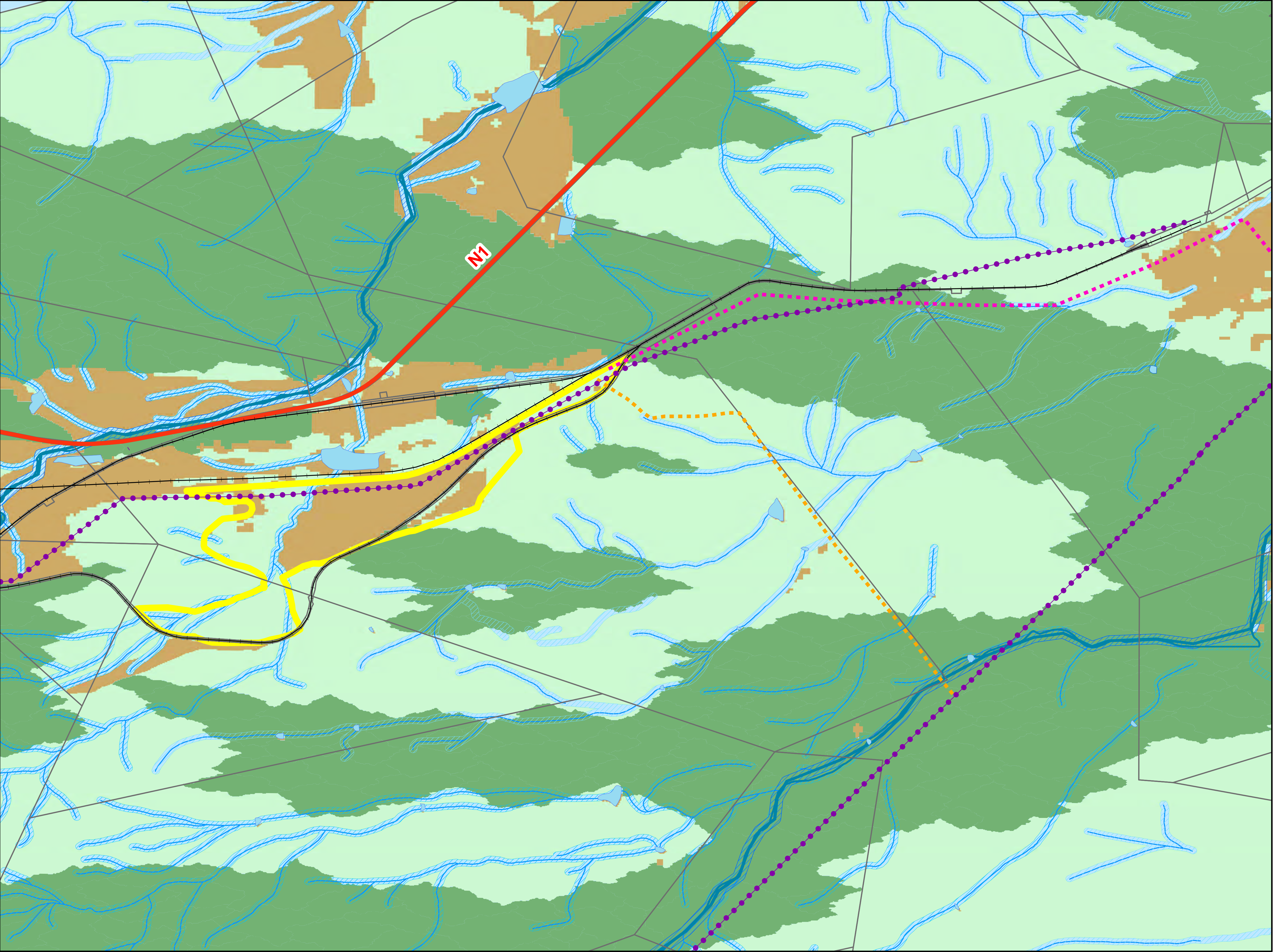
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Projection: GCS WGS 1984  
Datum: Geographic (WGS 1984)  
Data Source: Department of Surveys and Mapping  
Cape Town  
Google Earth Image 2010

Figure 3: Agricultural Areas





**Legend**

- Proposed Site
- Cadastral Boundaries
- Critical Biodiversity Area - Terrestrial
- Critical Biodiversity Area - Aquatic**
- Critical Biodiversity Area - Aquatic
- Critical Biodiversity Area Buffer - Aquatic
- Critical Ecological Support Areas**
- Critical Ecological Support Area
- Critical Ecological Support Areas Buffer
- Other Ecological Support Areas**
- Other Ecological Support Area
- Other Ecological Support Areas Buffer
- Other Natural Areas
- No Natural Remaining
- National Route
- Existing Powerline
- Option 1 b Transmission Line
- Option 1 a Transmission Line

Project Location

0 0.5 1 2 Km

Scale: 1:19,924

N

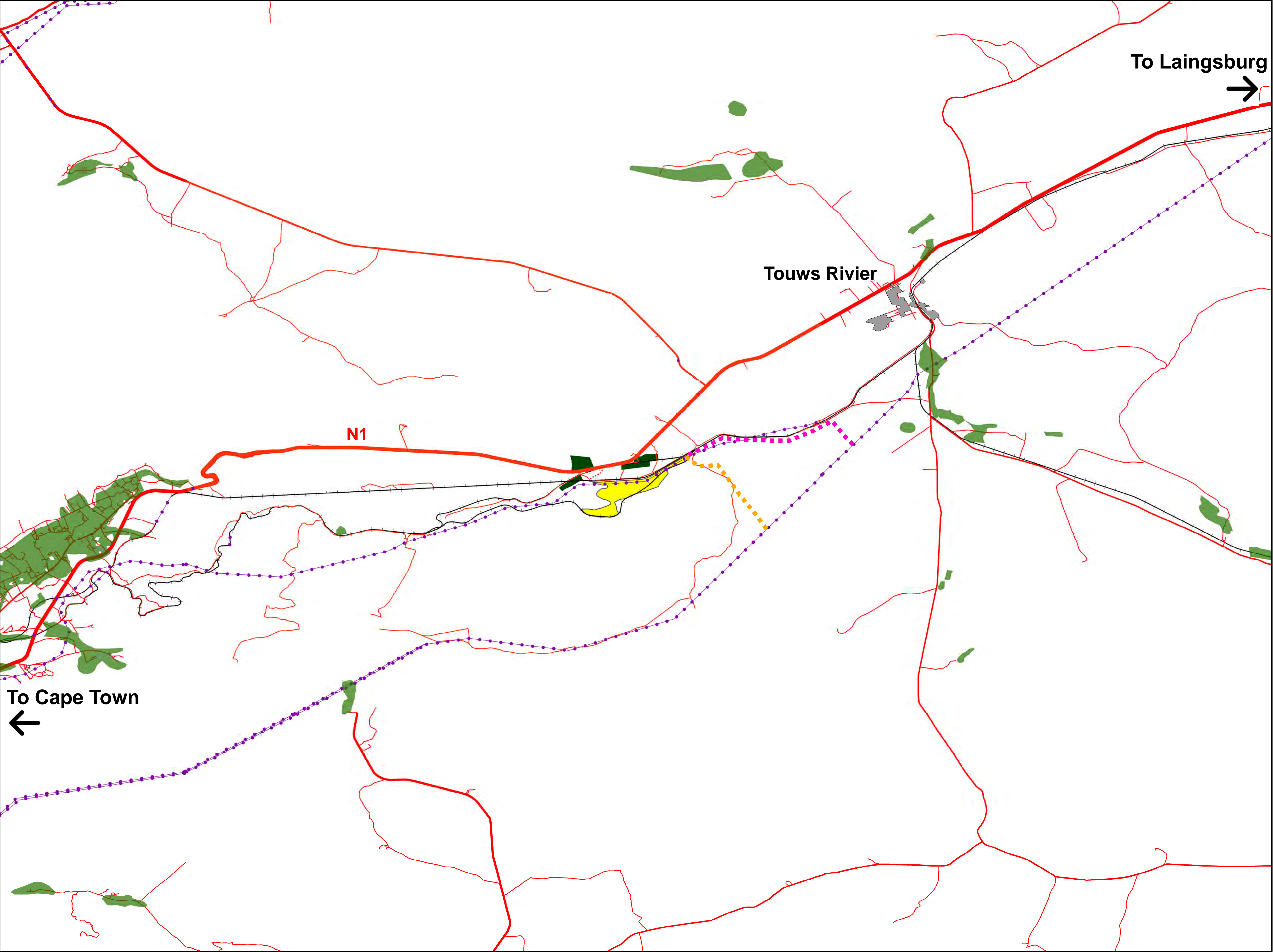
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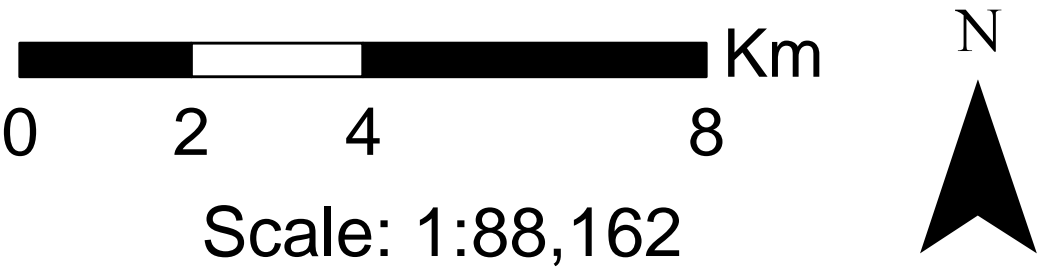
Projection: GCS WGS 1984  
Datum: Geographic (WGS 1984)  
Data Source: Department of Surveys and Mapping  
Cape Town  
SANBI 2006 from BGIS website

Figure 4: Critical Biodiversity Areas





- Legend**
- Proposed Site
  - Irrigated land
  - Irrigated land (ground truthed)
  - Urban Area
  - National Route
  - Arterial Route
  - Main Road
  - Secondary Road
  - Other Access Route
  - Railway Line
  - Power Line
  - Option 1 a Transmission Line
  - Option 1 b Transmission Line



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Projection: GCS WGS 1984  
Datum: Geographic (WGS 1984)  
Data Source: Department of Surverys and Mapping  
Cape Town  
ARC-ISCW 2000 from AGIS website

Figure 5: Regional Agricultural Areas



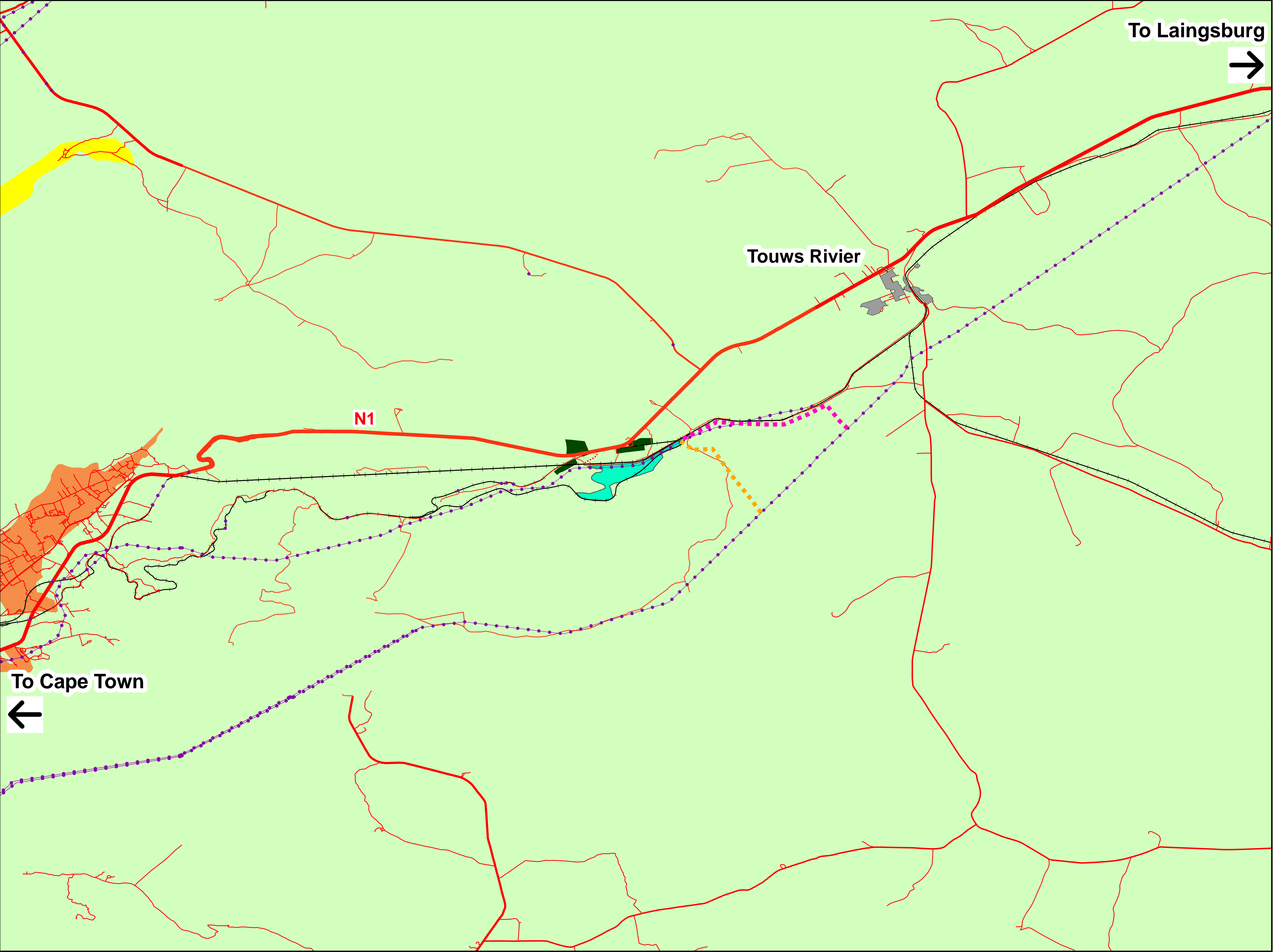


Figure 6: Regional Ecostatus

Legend

Proposed Site

Urban Area

Irrigated land (ground truthed)

Western Cape Ecostatus

Critically Endangered

Endangered

Least Threatened

Vulnerable

National Route

Arterial Route

Main Road

Secondary Road

Other Access Route

Railway Line

Power Line

Option 1 a Transmission Line

Option 1 b Transmission Line

Project Location

0

2

4

8

Km

Scale: 1:88,162

N

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