

Kookfontein Prospecting Right Application NSBA 2014

1360 Kookfontein PR BAR & WULA

Legend

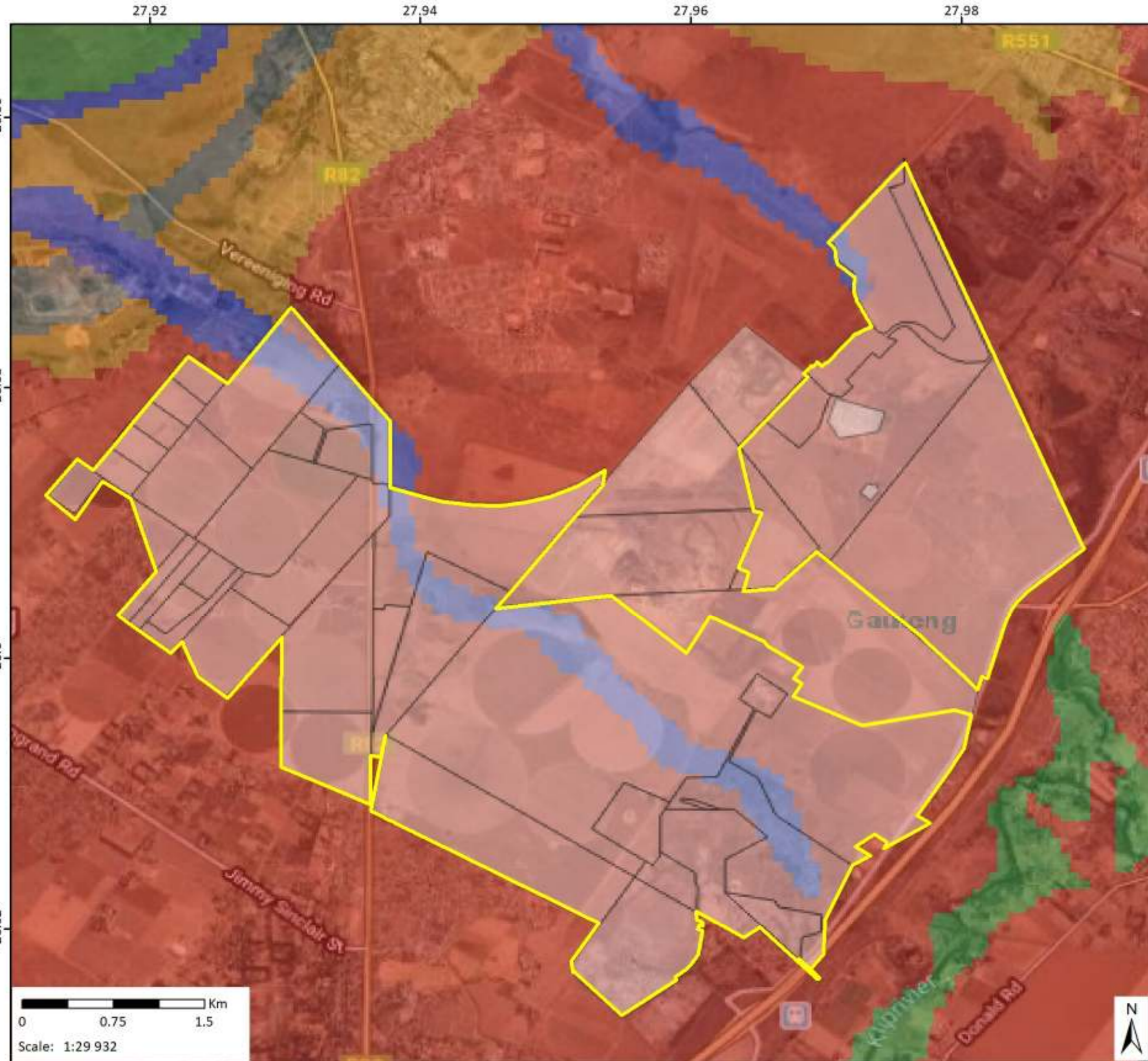
-  Proposed Prospecting Right
-  Waldrift Municipal Nature Reserve
(National Spatial Biodiversity
Assessment 2014)



Data Sources:
CSG; ESRI; SANBI; NSBA 2014
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_NSBA 2014_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





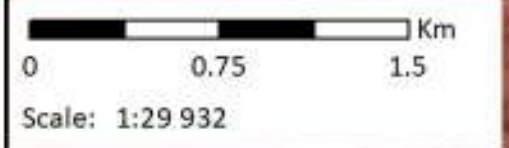
Kookfontein Prospecting Right Application Palaeo Sensitivity
1360 Kookfontein PR BAR & WULA

Legend

- Proposed Prospecting Right
- Palaeontological Sensitivity**
- Very High
- High
- Moderate
- Low
- Insignificant/ Zero
- Unknown



Data Sources:
CSG; ESRI; SAHRIS
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Palaeo Sens_200323



Date: 2020/07/30
EIMS Ref: 1360
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Reviewed: BW
Approved: LW





Proposed Prospecting Right Vertices
1360 Kookfontein PR BAR & WULA

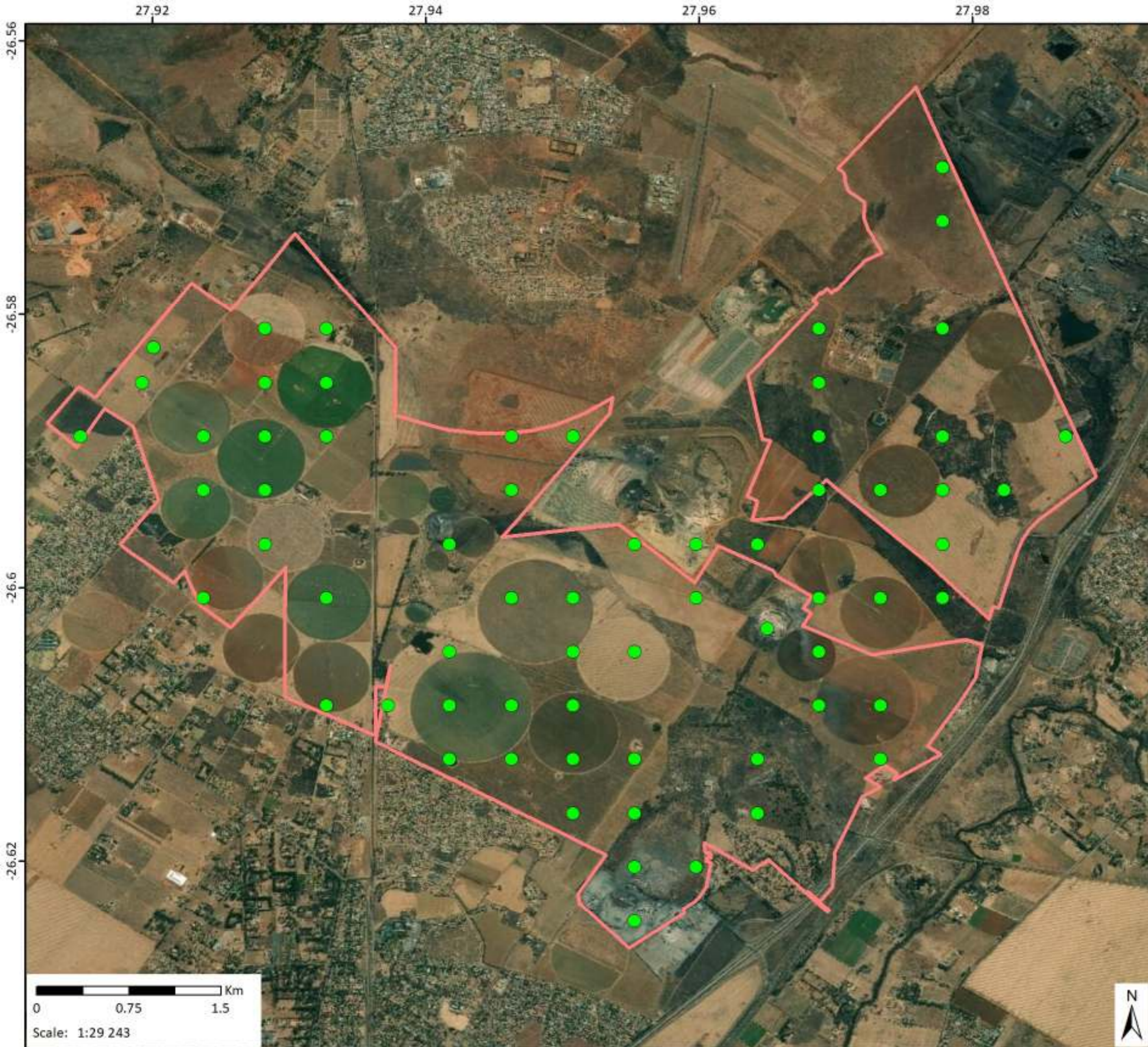
- Legend**
-  Proposed Prospecting Right
 -  Prospecting Right Vertices




Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1360_PR Vertices_200323

Date: 2020/07/30
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 Approved: LW



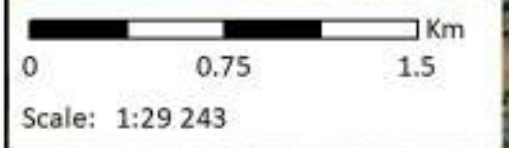


Kookfontein Prospecting Right Application Proposed Drill Sites
 1360 Kookfontein PR BAR & WULA

- Legend**
-  Proposed Prospecting Right
 -  Preliminary Proposed Drill Sites



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1360_Prelim Drill Sites_200323



Date: 2020/07/30
 EIMS Ref: 1360
 Compiled: PH
 Reviewed: BW
 Approved: LW



27.88 27.9 27.92 27.94 27.96 27.98 28 28.02

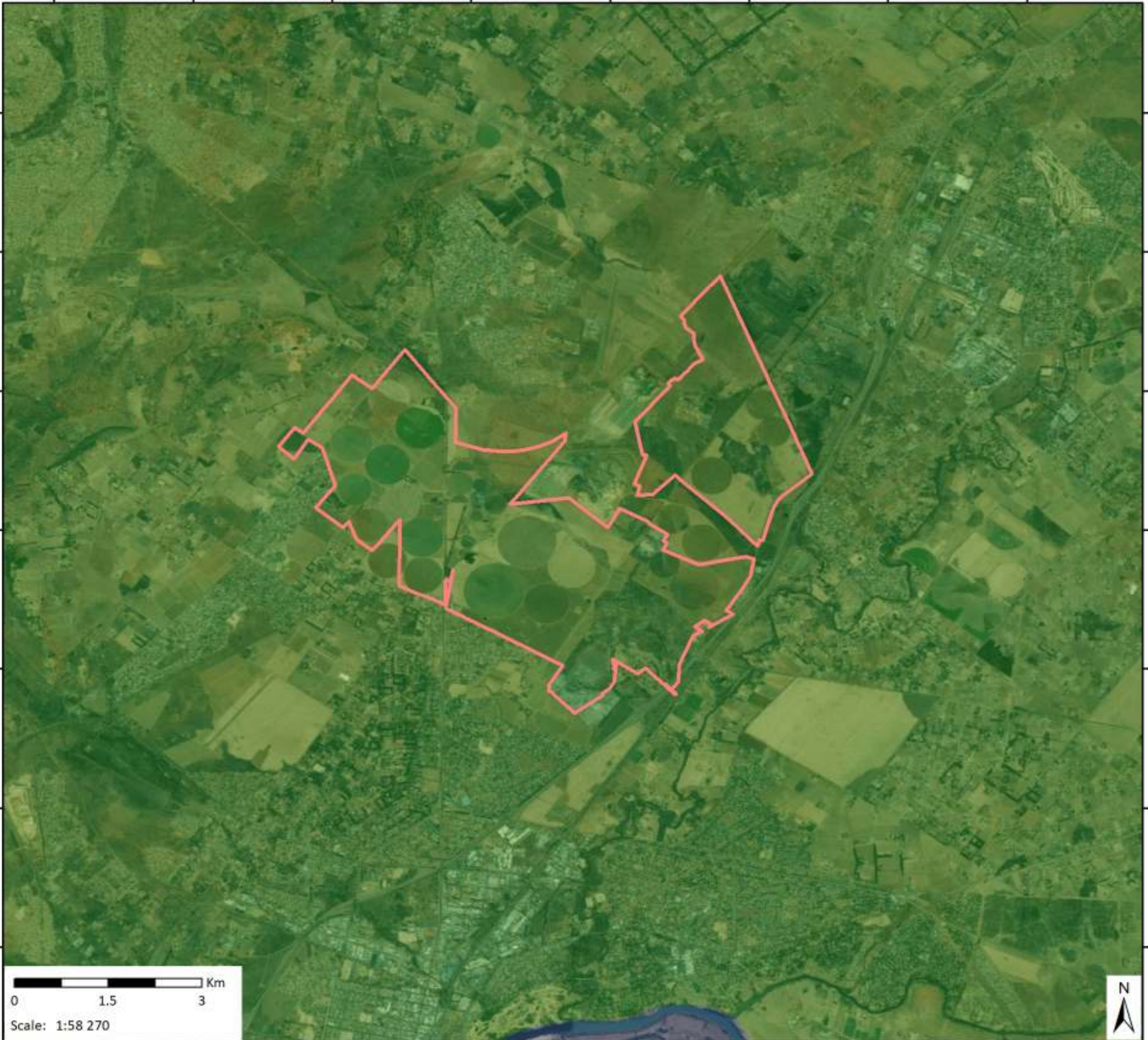
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-26.56
-26.58
-26.6
-26.62
-26.64
-26.66

Kookfontein Prospecting Right Application Protection Level

1360 Kookfontein PR BAR & WULA

Legend

-  Proposed Prospecting Right
-  Soweto Highveld Grassland
Protected: 0.2%
Protection Status: Not protected
-  Central Free State Grassland
Protected: 0.8%
Protection Status: Poorly protected















Data Sources:
 CSG; ESRI; SANBI; Mucina & Rutherford
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1360_Protection Level_200323

Date: 2020/07/30
 EIMS Ref: 1360
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 Approved: LW

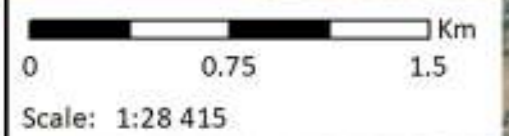
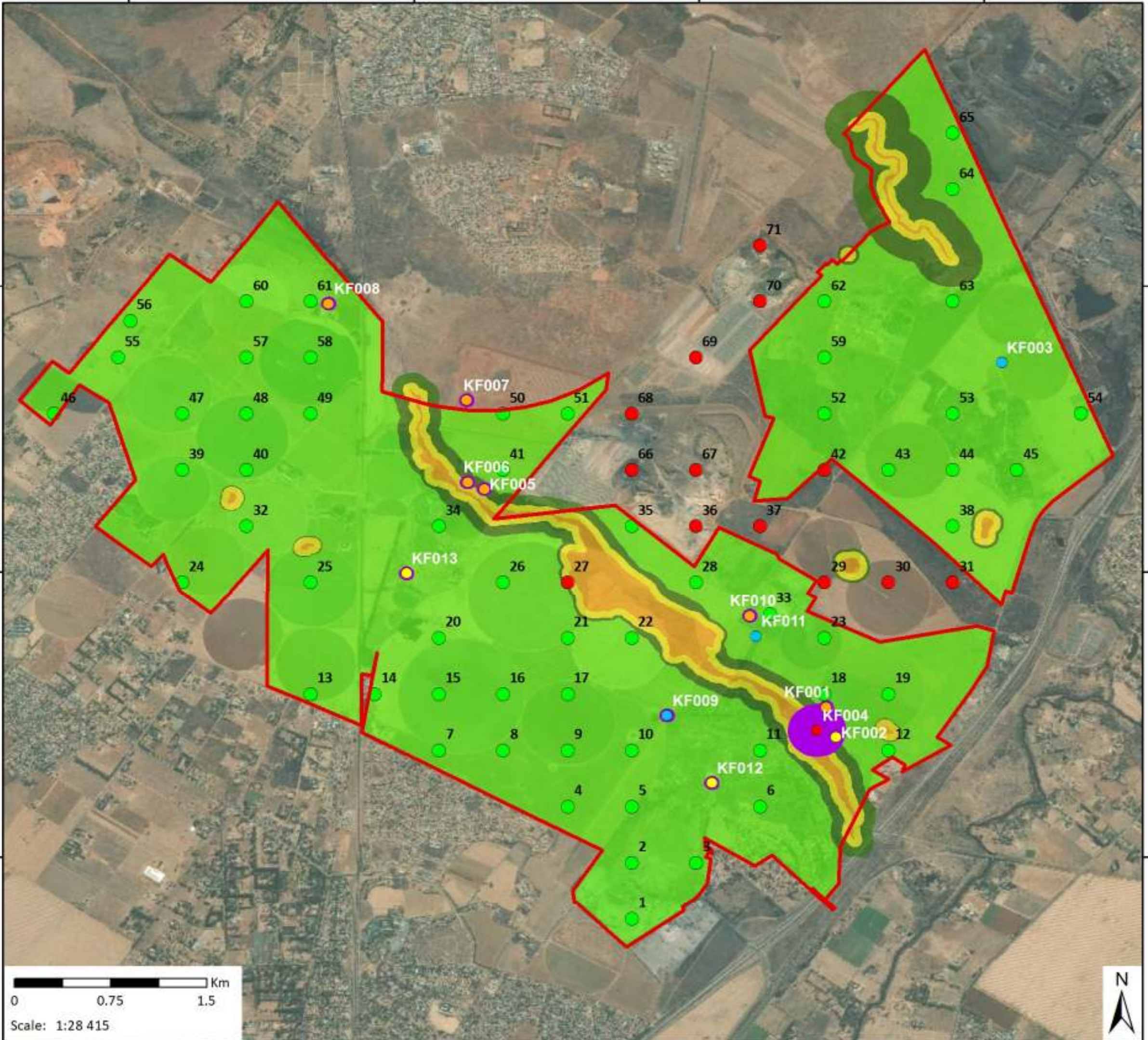


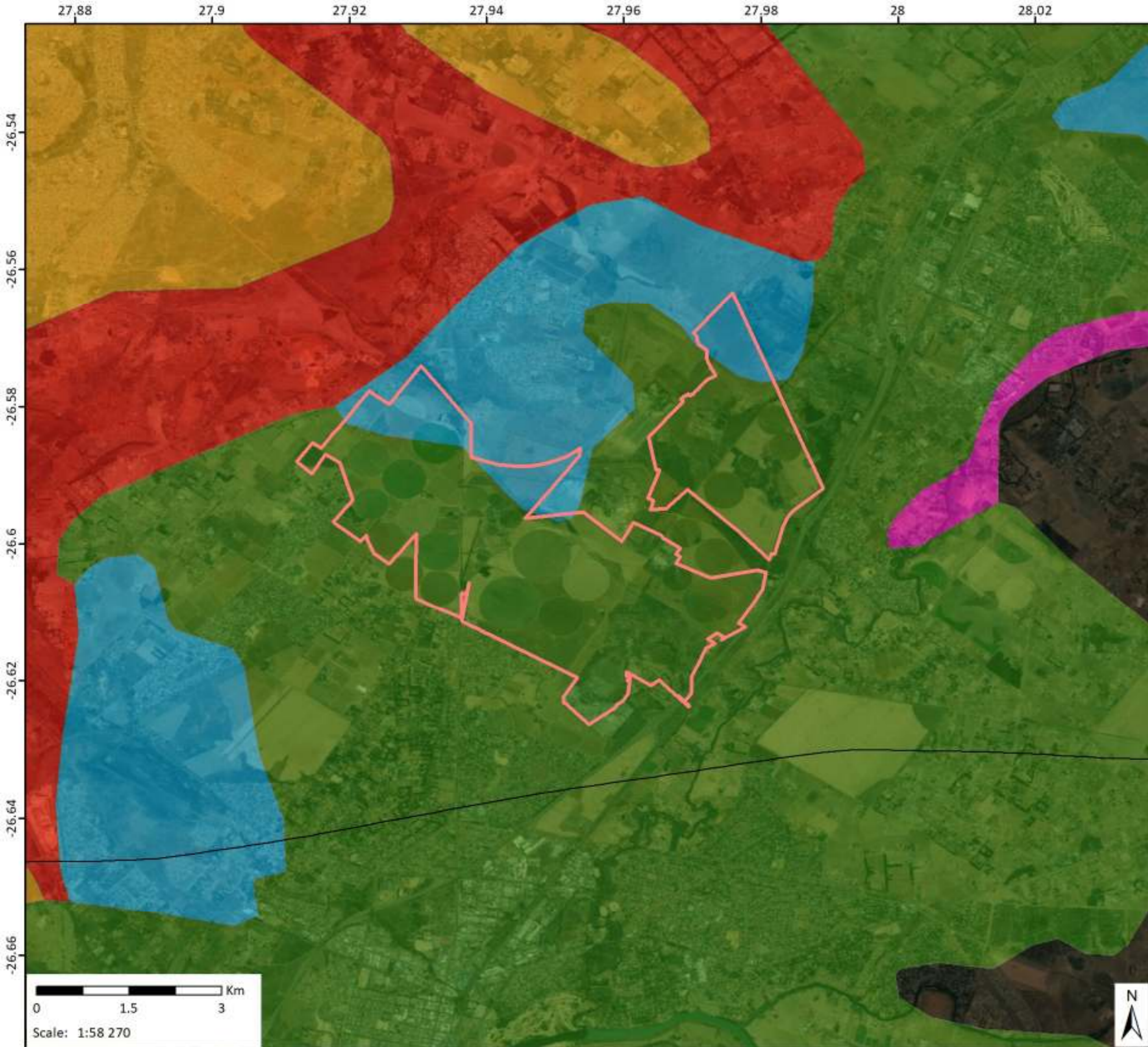
**Kookfontein Prospecting Right
Application Sensitivity Map**
1360 Kookfontein PR BAR & WULA

- Legend**
-  Proposed Prospecting Right
 - Proposed Drill Sites**
 -  Application Sites
 -  Discarded Sites
 - Heritage Features Sensitivity Rating**
 -  Very high
 -  High
 -  Moderate
 -  Low
 -  Suggested Heritage Feature Buffers
 - Wetlands Sensitivity**
 -  High
 -  Medium
 -  Low
 -  Least Concern






Data Sources:
CSG; ESRI; SANBI; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Sensitivity Map_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





**Kookfontein Prospecting
Right Application Simplified Geology**
1360 Kookfontein PR BAR & WULA

- Legend**
-  Proposed Prospecting Right
 -  Undifferentiated Lineament
- Lithology**
-  Andesite, conglomerate
 -  Dolomite, subordinate chert, minor carbonaceous shale, limestone & quartzite
 -  Fine- to coarse-grained sandstone, shale, coal seams
 -  Quartzite, siltstone, conglomerate, shale, andesite
 -  Quartzite, subordinate conglomerate and shale
 -  Shale, minor limestone/dolomite, basalt and tuff
 -  Shale, quartzite, conglomerate, breccia, diamictite
 -  Tholeiitic basalt



Data Sources:
CSG; ESRI; Council for Geoscience
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Simplified Geology_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
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Approved: LW



Kookfontein Prospecting Right Application Delineated Wetlands

1360 Kookfontein PR BAR & WULA

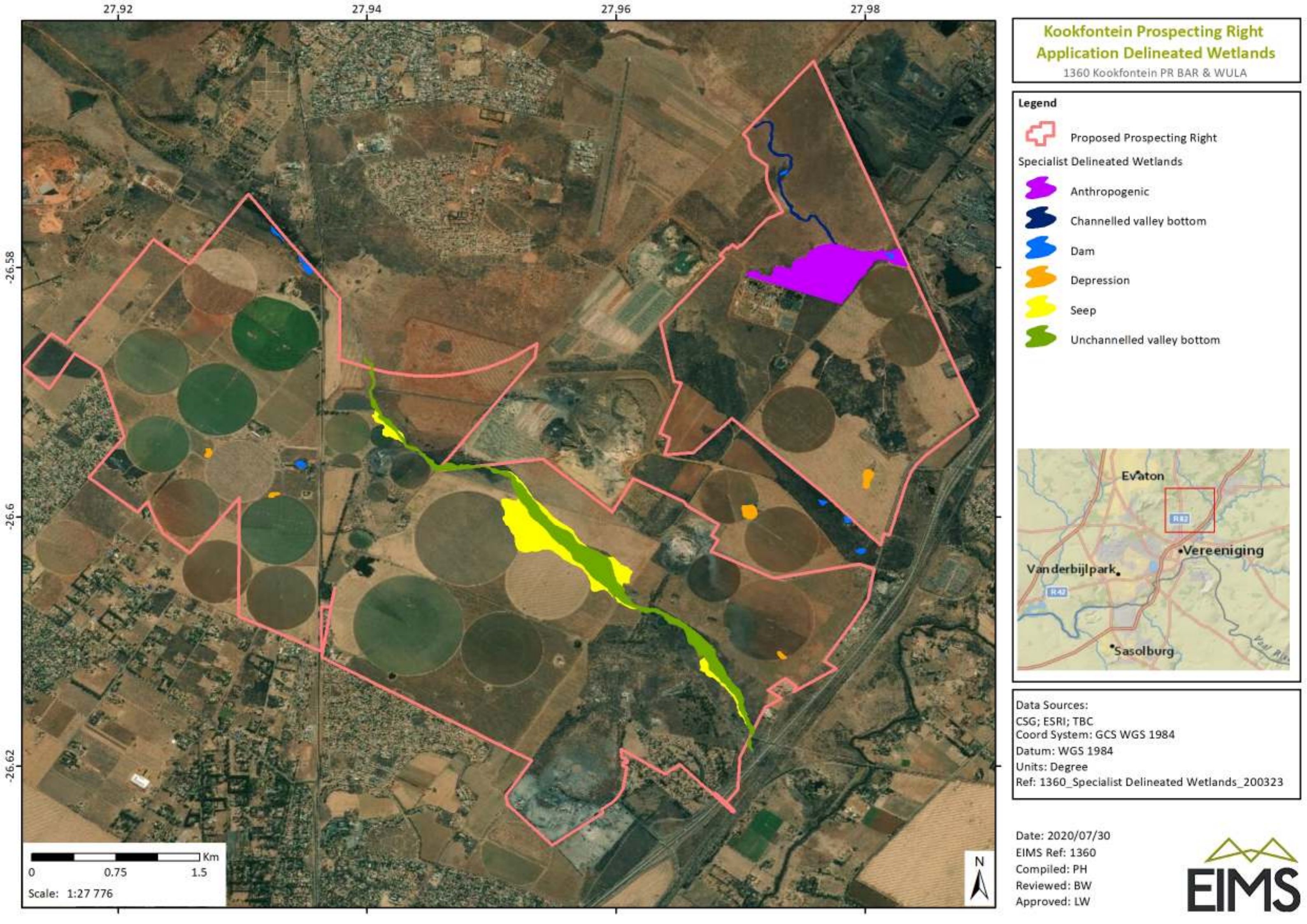
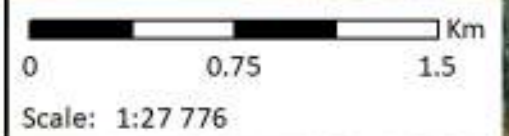
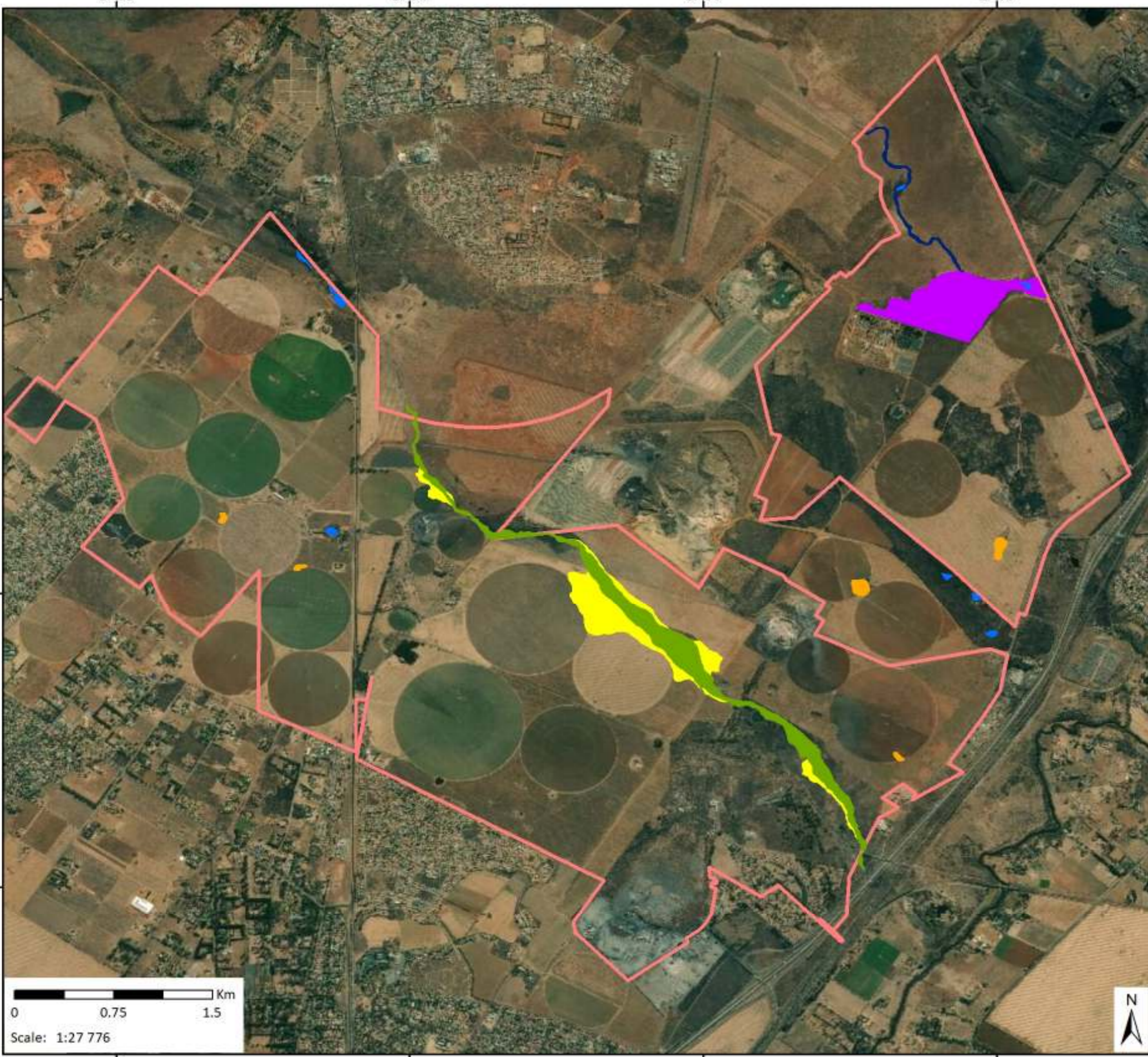
Legend

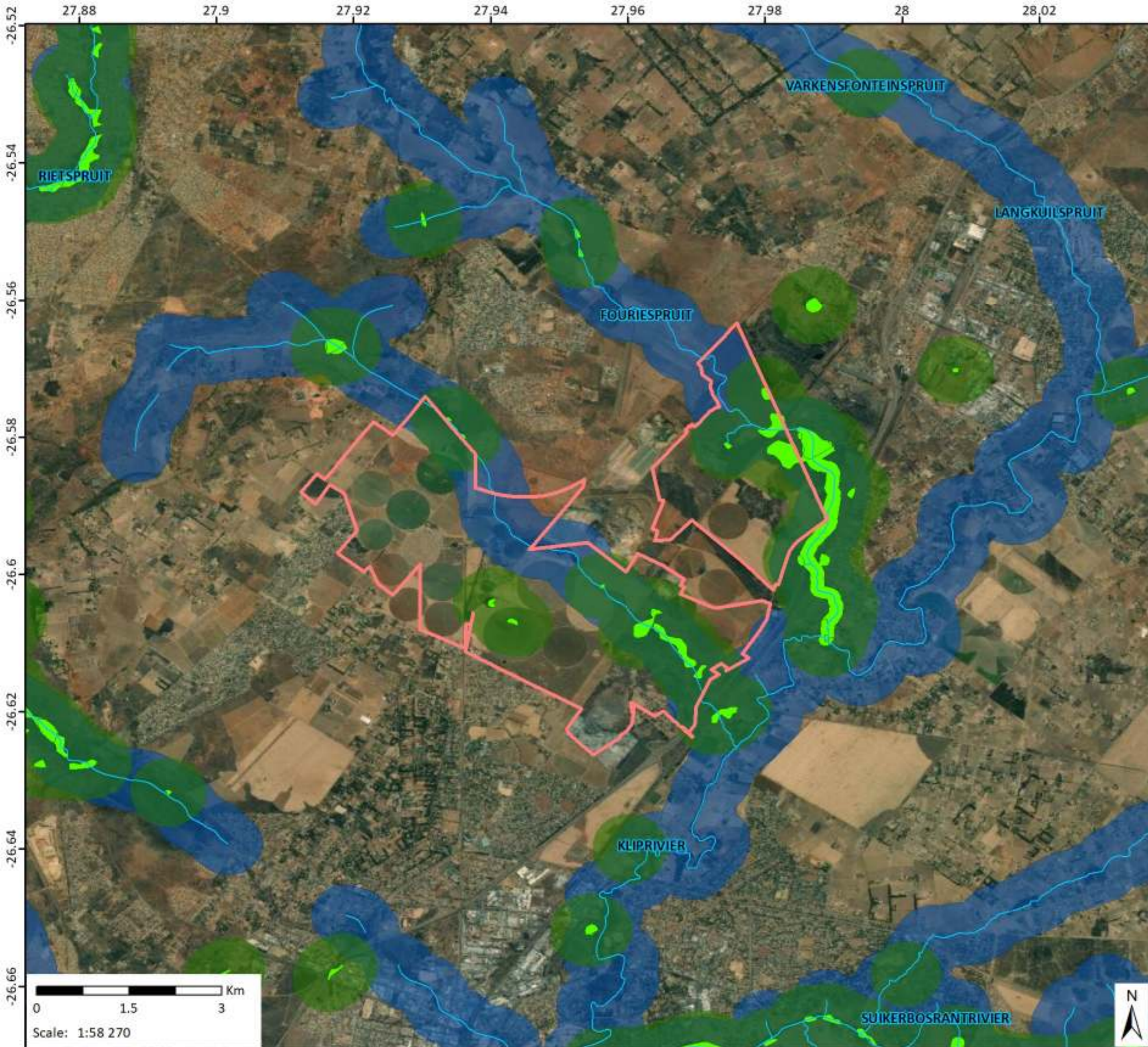
- Proposed Prospecting Right
- Specialist Delineated Wetlands
 - Anthropogenic
 - Channelled valley bottom
 - Dam
 - Depression
 - Seep
 - Unchannelled valley bottom



Data Sources:
CSG; ESRI; TBC
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Specialist Delineated Wetlands_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW



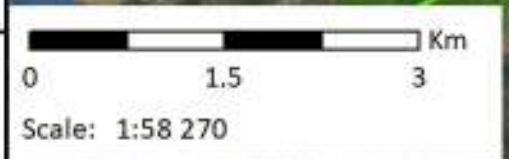


**Kookfontein Prospecting Right
Application Surface Water Features**
1360 Kookfontein PR BAR & WULA

- Legend**
-  Proposed Prospecting Right
 -  Rivers/ Streams
 -  Rivers/ Streams 500m Buffer
 -  NFEPA_Wetlands
 -  NFEPA Wetlands 500m Buffer



Data Sources:
CSG; ESRI; SANBI; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Surface Water Features_200323



Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





**Kookfontein Prospecting Right
Application Ecosystem Threat Status**
1360 Kookfontein PR BAR & WULA

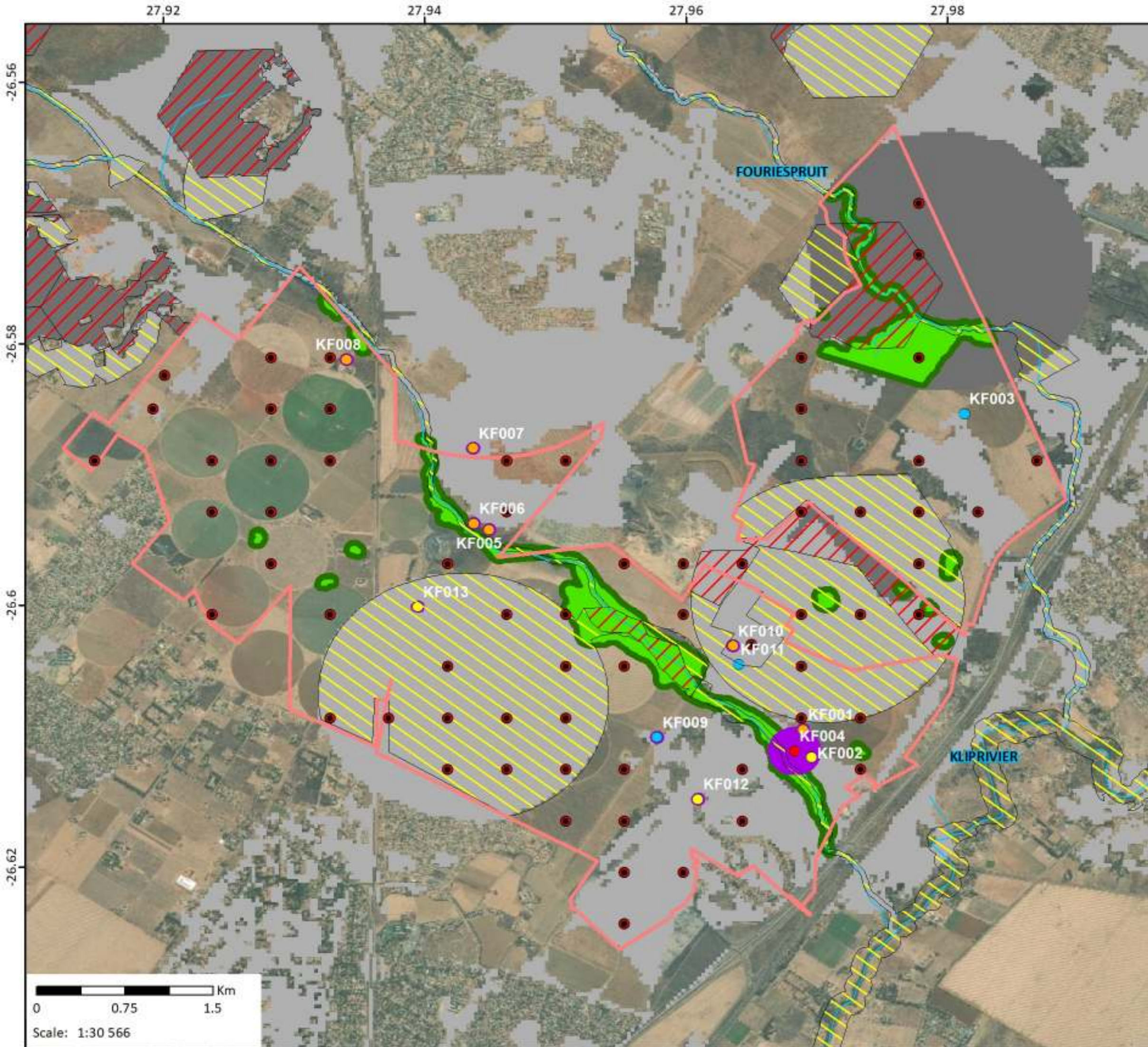
- Legend**
-  Proposed Prospecting Right
 - Ecosystem Threat Status (NBA2018)**
 -  Soweto Hivveld Grassland
Ecosystem Threat Status: Vulnerable
 -  Central Free State Grassland
Ecosystem Threat Status: Least Concern



Data Sources:
CSG; ESRI; SANBI; NBA2018
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Threat Status_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





Kookfontein Prospecting Right Application Composite Map
1360 Kookfontein PR BAR & WULA

Legend

- Proposed Drill Sites
- ▭ Proposed Prospecting Right
- ~ Rivers/ Streams
- Specialist Delineated Wetlands
- Suggested 50m Wetland Buffer

Gauteng Conservation Plan

- ▨ Critical Biodiversity Areas
- ▨ Ecological Support Areas

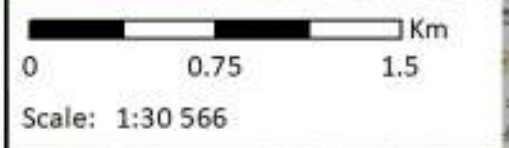
Heritage Features Rating

- Very high
- High
- Moderate
- Low
- Suggested Heritage Feature Buffers

Mining and Biodiversity Guidelines

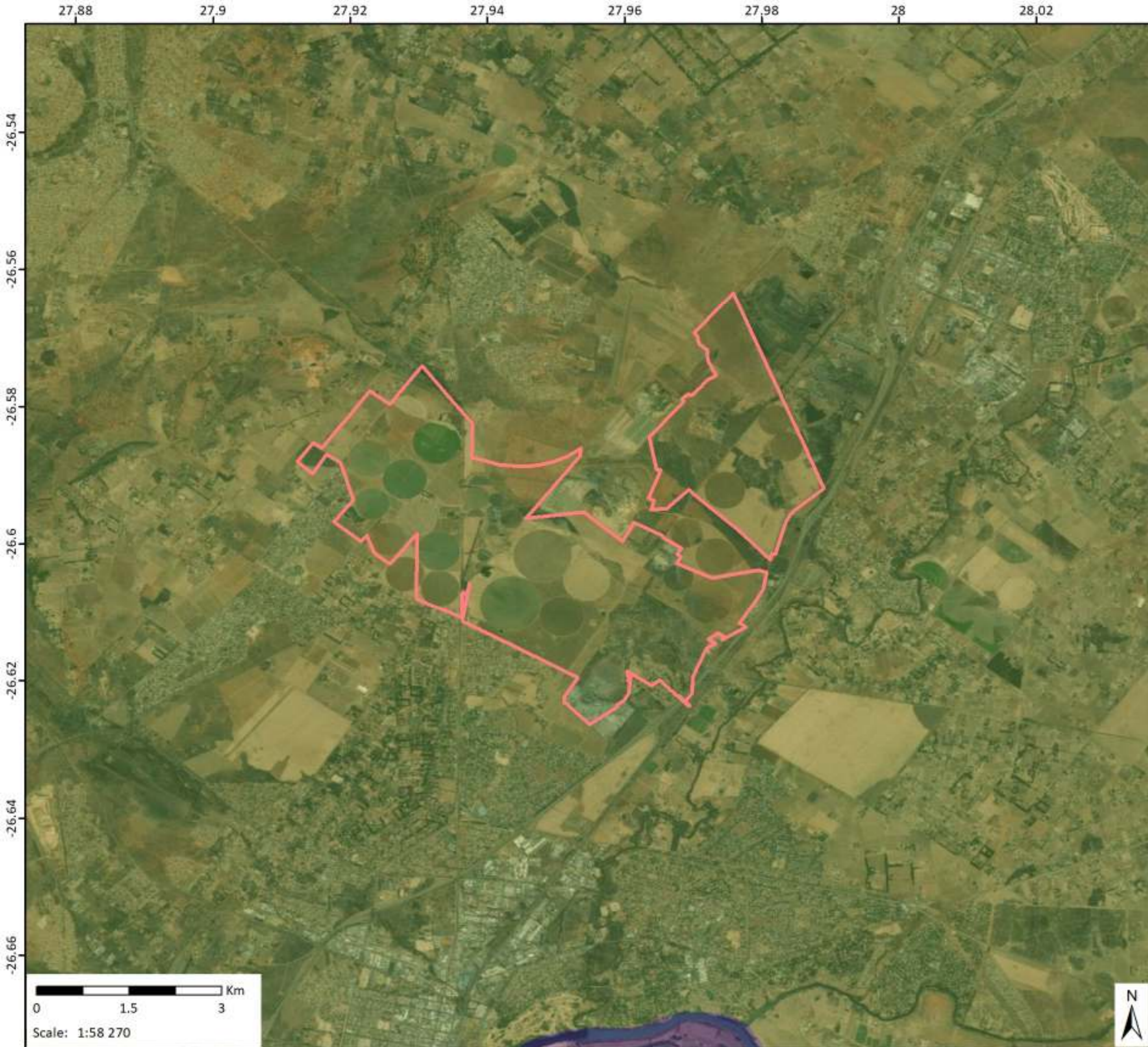
- B. Highest biodiversity importance - highest risk for mining
- D. Moderate biodiversity importance - moderate risk for mining

Data Sources:
CSG; ESRI; SANBI; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Composite Map_200323



Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





**Kookfontein Prospecting Right
Application Conservation Status**
1360 Kookfontein PR BAR & WULA

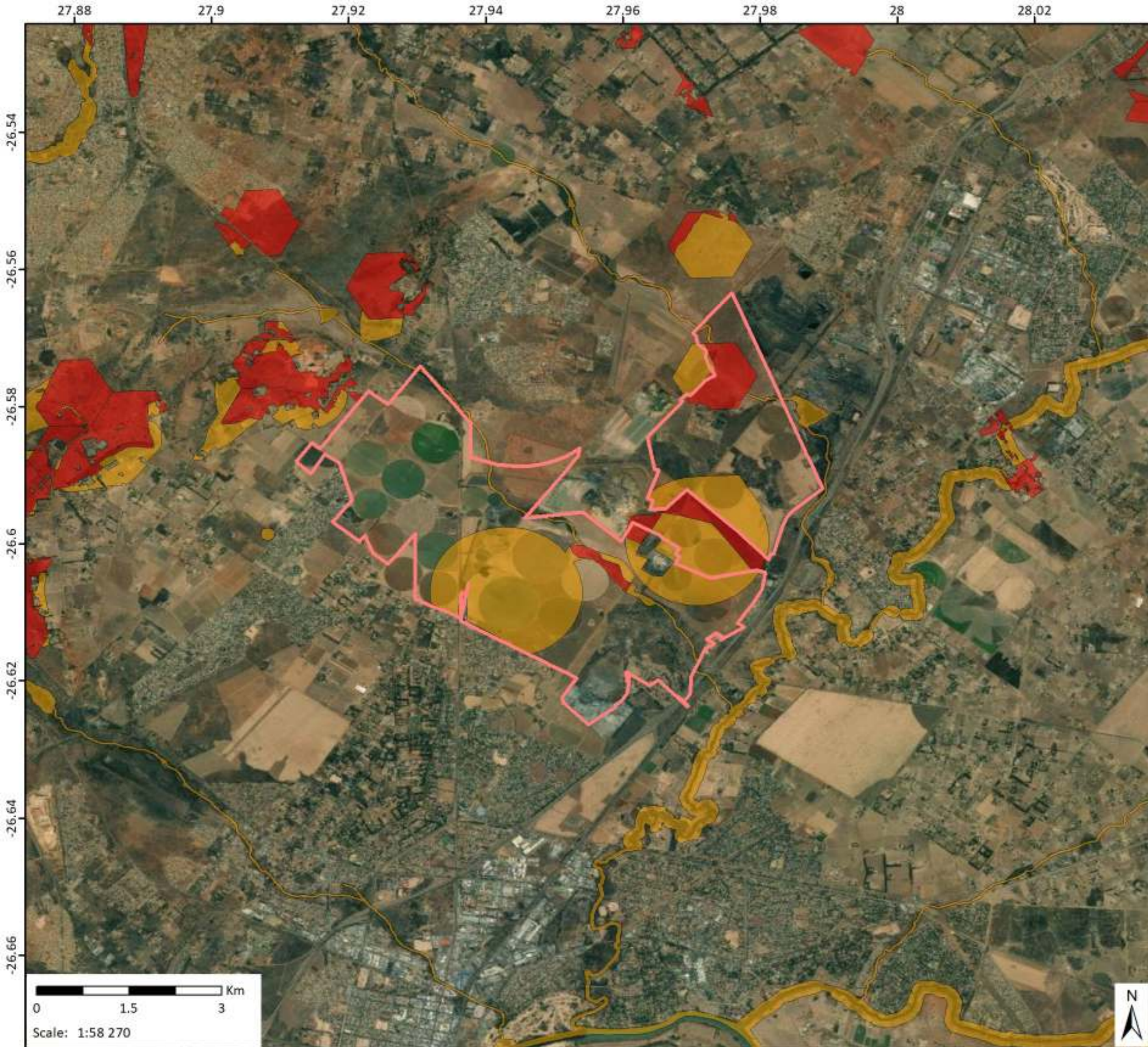
- Legend**
-  Proposed Prospecting Right
 -  Soweto Highveld Grassland
Conservation Status: Endangered
Conservation Target: 24%
Remaining: 52.7%
 -  Central Free State Grassland
Conservation Status: Vulnerable
Conservation Target: 24%
Remaining: 76.5%



Data Sources:
CSG; ESRI; SANBI; Mucina & Rutherford
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Conservation Status_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





**Kookfontein Prospecting
Right Application GP C-Plan**
1360 Kookfontein PR BAR & WULA

Legend

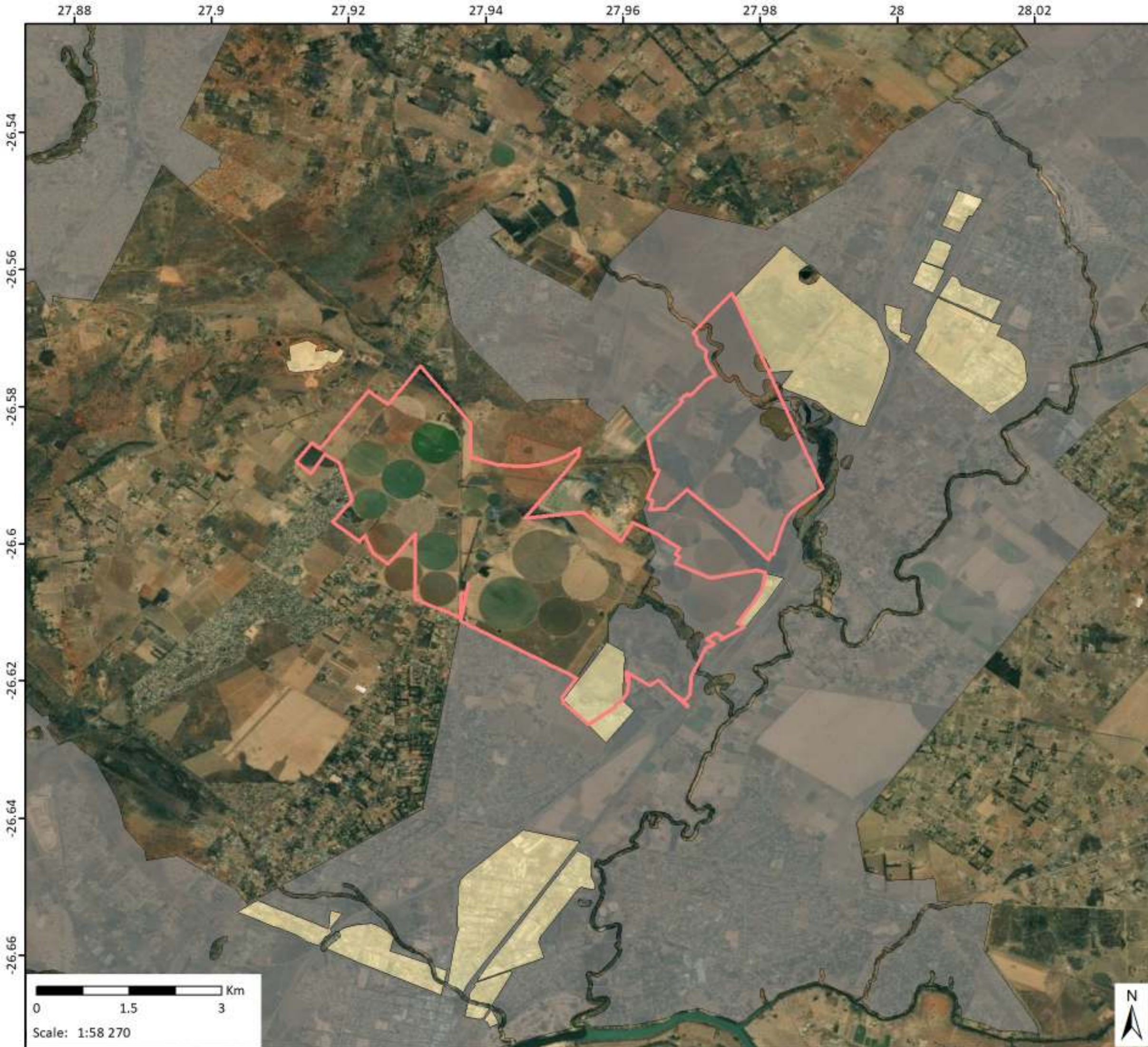
-  Proposed Prospecting Right
- Gauteng Conservation Plan**
-  Critical Biodiversity Areas
-  Ecological Support Areas



Data Sources:
CSG; ESRI; SANBI; GP C-Plan
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_GP C-Plan_200323




Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





**Kookfontein Prospecting
Right Application GP EMF**
1360 Kookfontein PR BAR & WULA

Legend

-  Proposed Prospecting Right
- GP Environmental Management Framework**
-  Zone 1
-  Zone 5



Data Sources:
CSG; ESRI; GP EMF
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_GP EMF_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW





Kookfontein Prospecting Right Application Heritage Features

1360 Kookfontein PR BAR & WULA

Legend

- ⬮ Proposed Prospecting Right
- Heritage Rating**
- Very high
- High
- Moderate
- Low
- Heritage Feature Buffers

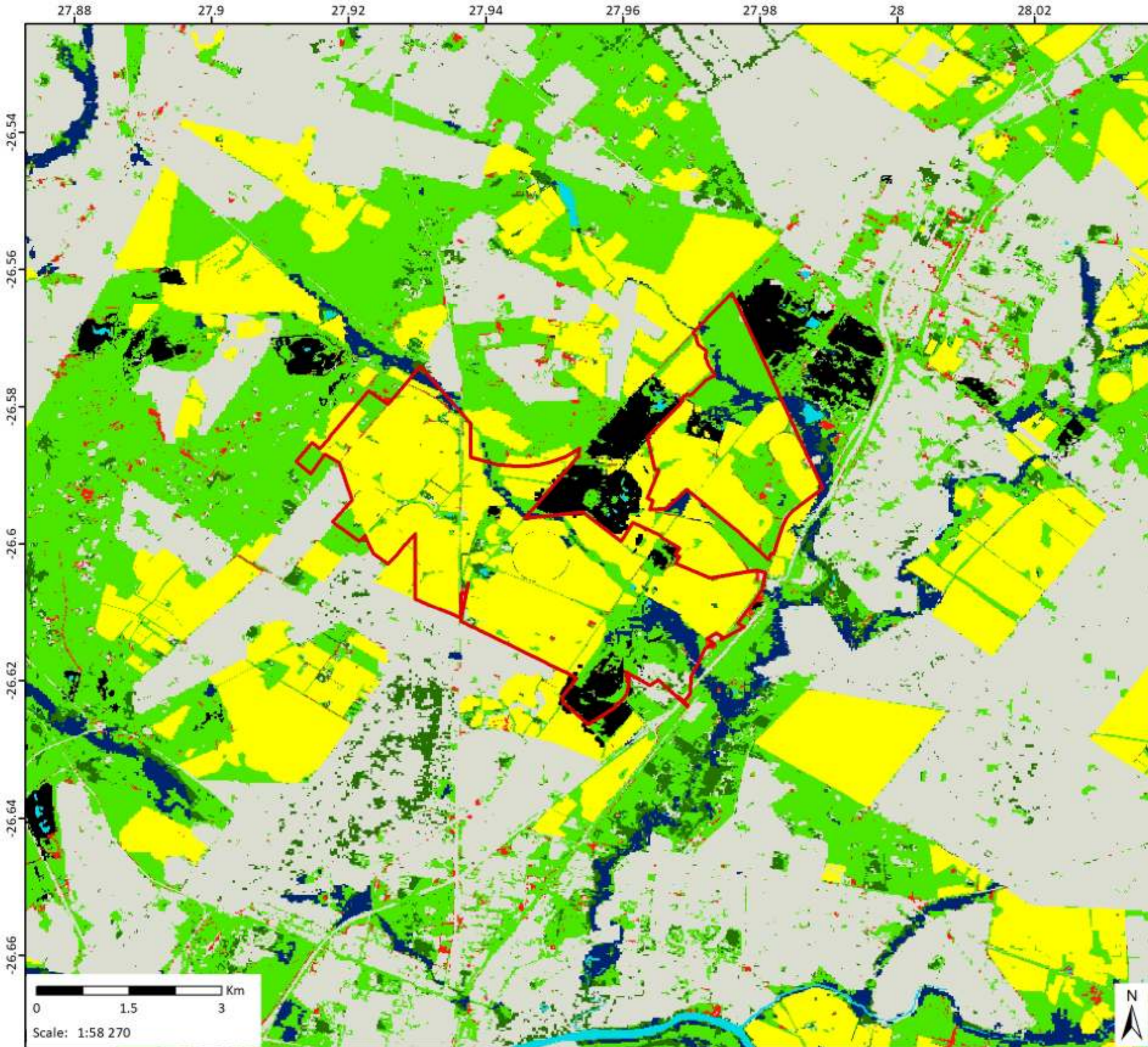


Data Sources:
 CSG; ESRI; SANBI; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1360_Heritage Features_200323



Date: 2020/07/30
 EIMS Ref: 1360
 Compiled: PH
 Reviewed: BW
 Approved: LW





Kookfontein Prospecting
Right Application Land Cover
 1360 Kookfontein PR BAR & WULA

Legend

-  Proposed Prospecting Right

Land Cover

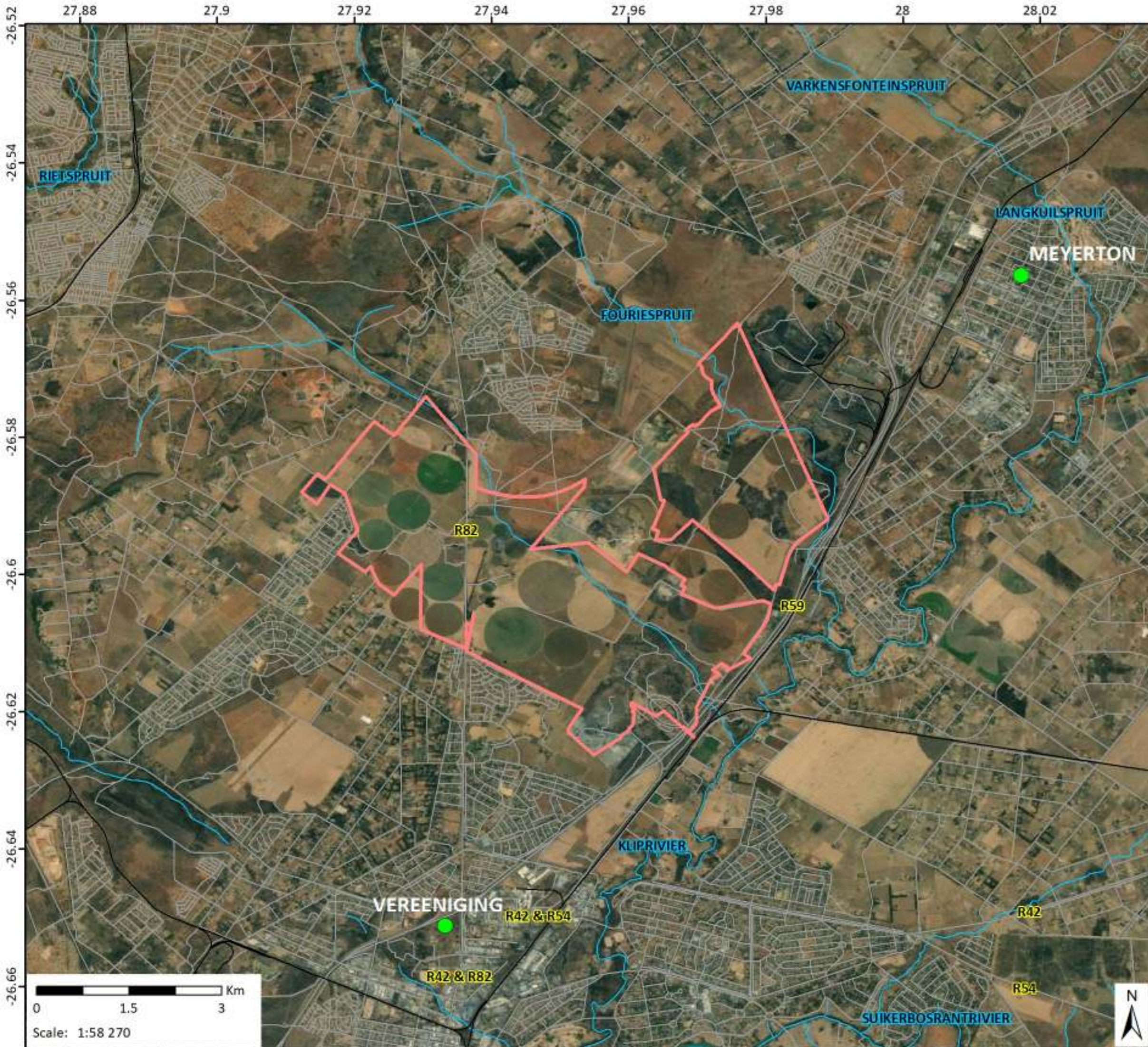
-  Barren Land
-  Built-up
-  Cultivated
-  Forested Land
-  Grassland
-  Mines & Quarries
-  Shrubland
-  Waterbodies
-  Wetlands



Data Sources:
 CSG; ESRI; GEOTERRAIMAGE; DEA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1360_Land Cover_200323

Date: 2020/07/30
 EIMS Ref: 1360
 Compiled: PH
 Reviewed: BW
 Approved: LW





Kookfontein Proposed Prospecting Right Locality Map
1360 Kookfontein PR BAR & WULA

- Legend**
- Towns
 - Railways
 - Roads
 - Rivers
 - Proposed Prospecting Right



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1360_Locality Map_200323

Date: 2020/07/30
EIMS Ref: 1360
Compiled: PH
Reviewed: BW
Approved: LW



27.92

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27.96

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28

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-26.58






-26.6

-26.62

Kookfontein Prospecting Right Application Mining Guidelines

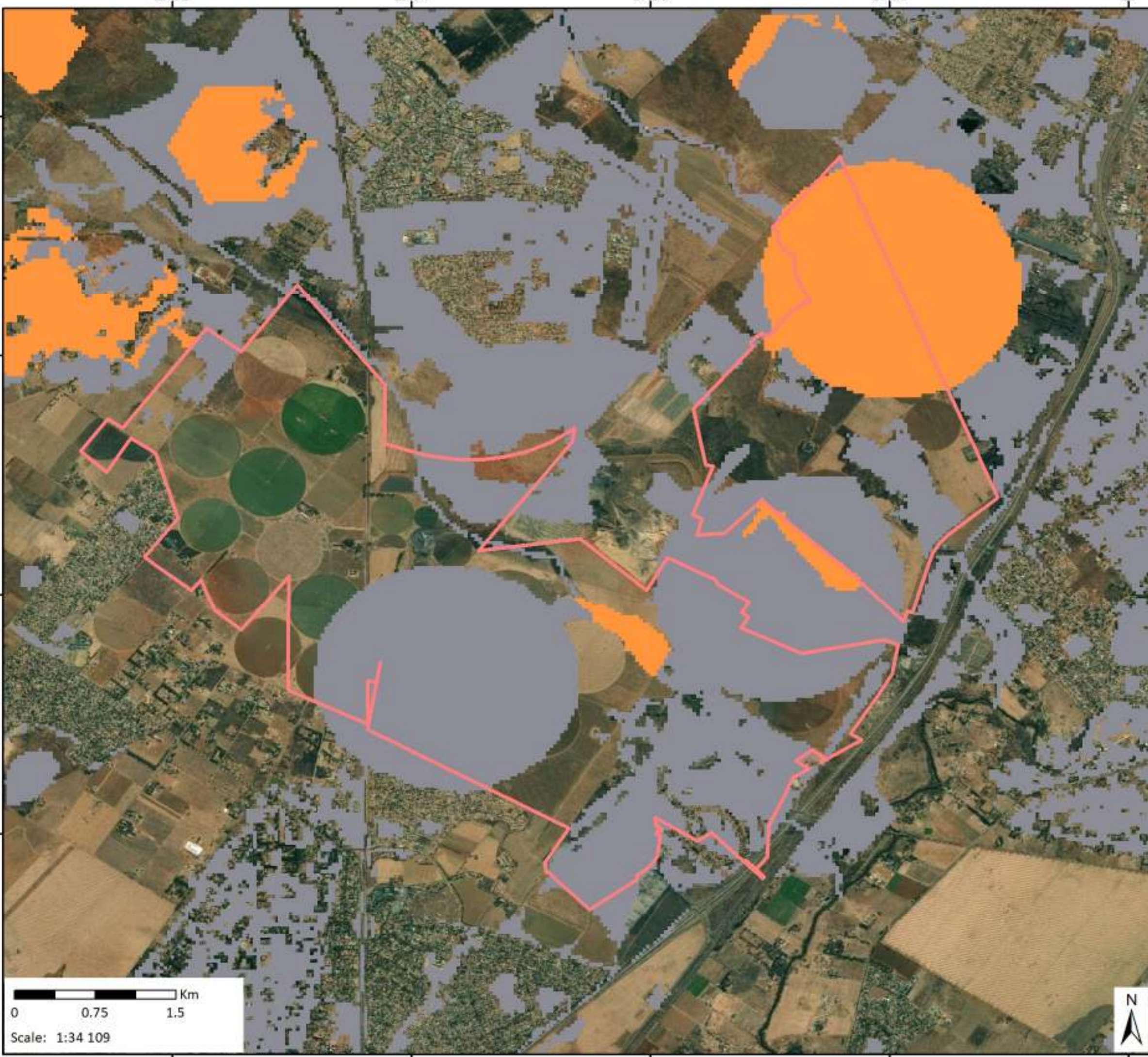
1360 Kookfontein PR BAR & WULA

Legend

-  Proposed Prospecting Right
- Mining and Biodiversity Guidelines**
-  A. Legally protected - mining prohibited
-  B. Highest biodiversity importance - highest risk for mining
-  C. High biodiversity importance - high risk to mining
-  D. Moderate biodiversity importance - moderate risk for mining



Data Sources:
 CSG; ESRI; SANBI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1360_Mining Guidelines_200323



Date: 2020/07/30
 EIMS Ref: 1360
 Compiled: PH
 Reviewed: BW
 Approved: LW

