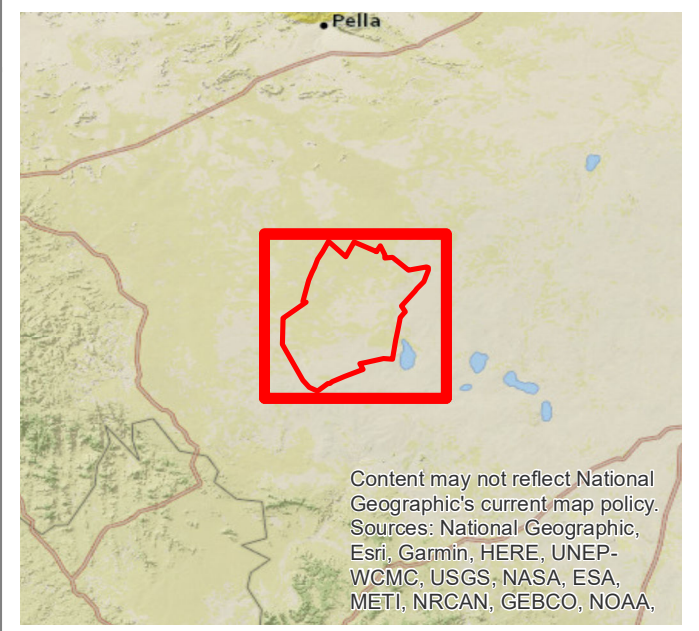


Sketch Plan

Black Mountain Mining Gifkop Prospecting Right Application

Legend

- Boundary Points
- 1- Gifkop Application
- Farm Portions



Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

0 5 10 Km

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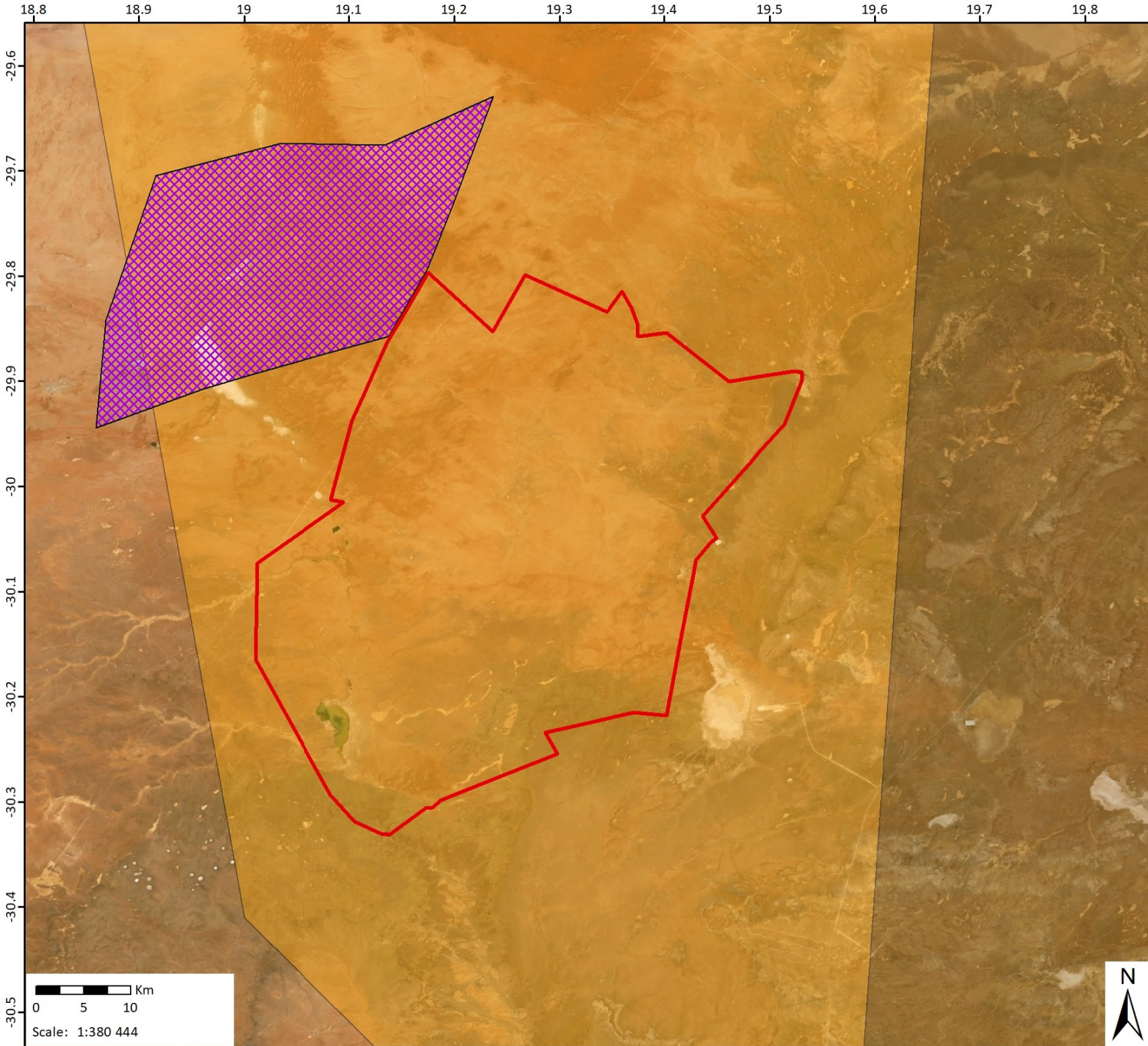
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Data Sources:
ESRI, BMM

Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1304_Sketch Plan_20190613_GP






Date: 2019/06/13
EIMS Ref: 1304
Compiled: AS1
Reviewed: GPK
Approved: LW

Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



**Gifkop Prospecting Right
Application Important Areas**
1304 BMM Prospecting Right Application

Legend

-  Gifkop Prospecting Application Area
- Important Bird Area
-  Bitterputs Conservation Area
- Square Kilometre Array radio telescope (SKA) Areas
-  Karoo Central Astronomy Advantage Area 1
-  Karoo Central Astronomy Advantage Area 2
-  Karoo Central Astronomy Advantage Area 3

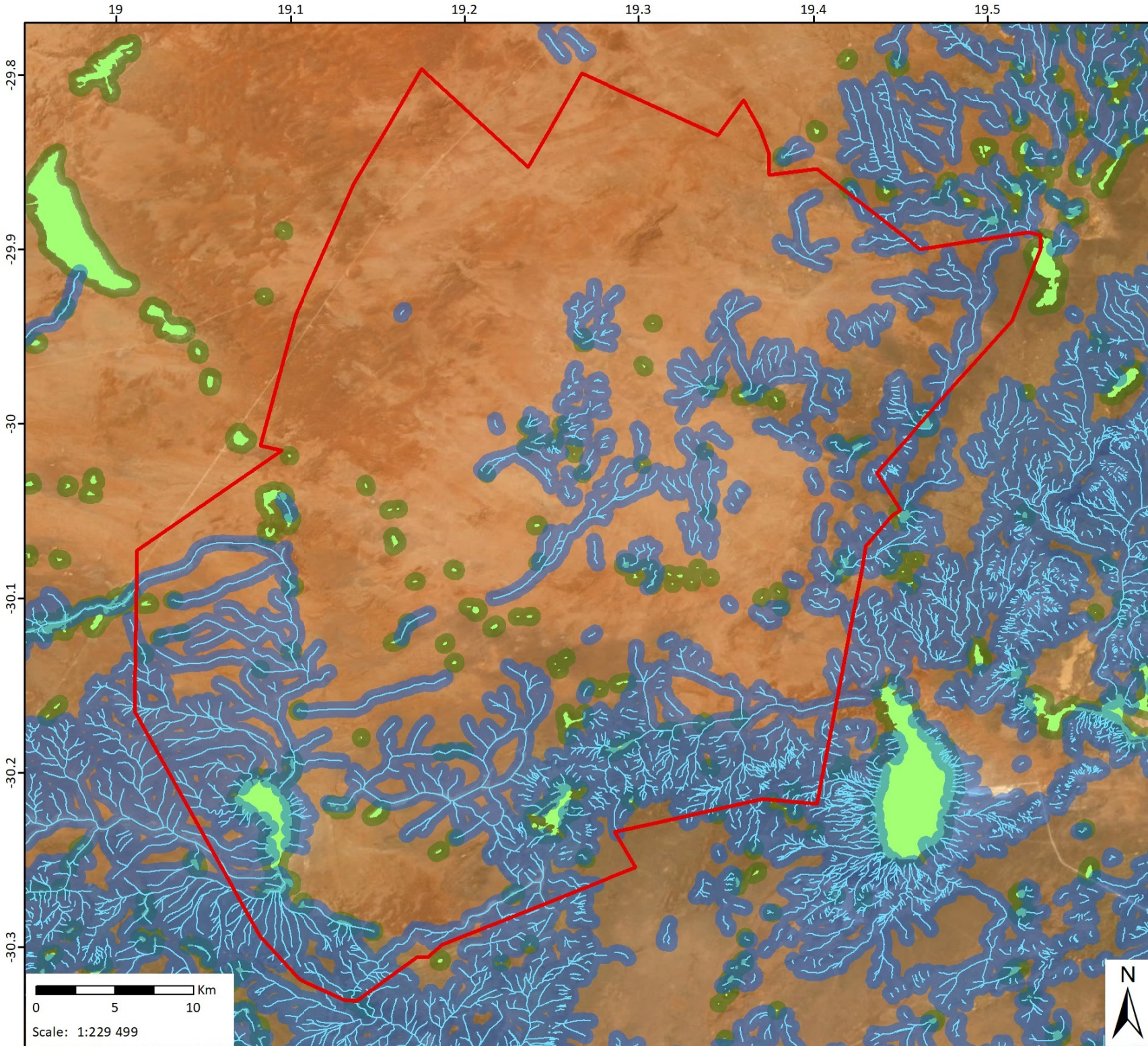


Data Sources:
CSG; ESRI; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984

Ref: Gifkop Important Areas_190718_PH

Date: 2019/07/18
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW

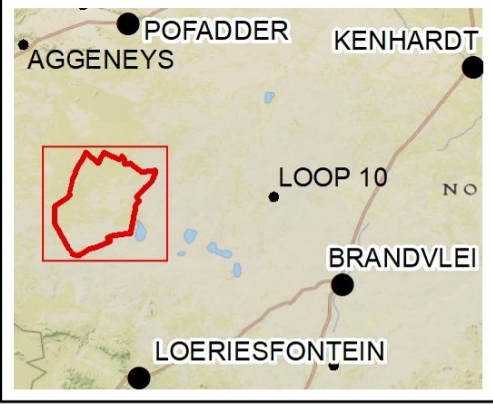




Gifkop Prospecting Right Application Surface Water Features

1304 BMM Prospecting Right Application

- Legend**
- Gifkop Prospecting Application Area
 - Rivers/ Streams
 - NFEPA Wetlands
 - Rivers/ Streams 500m Buffer
 - NFEPA Wetlands 500m Buffer

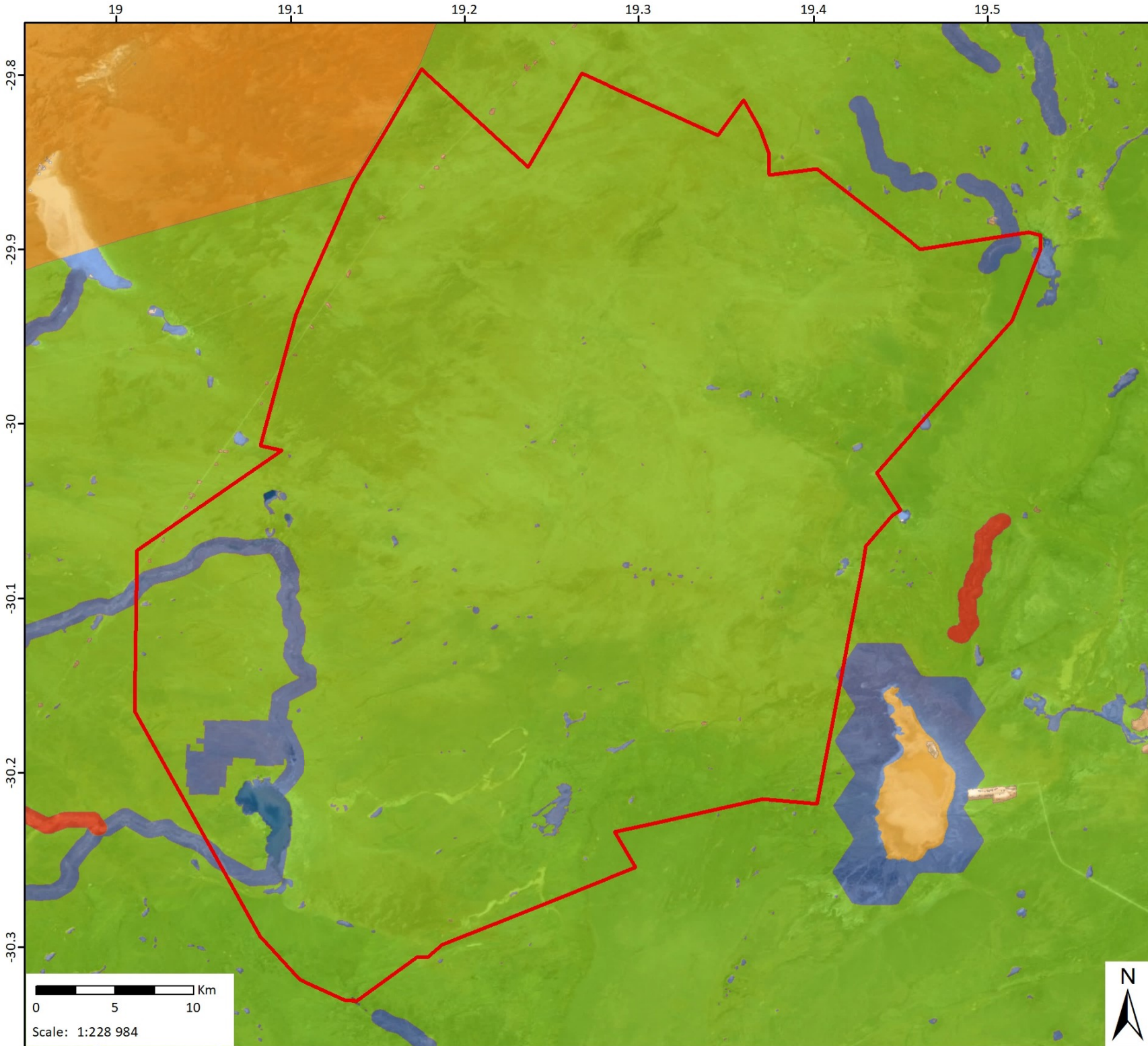


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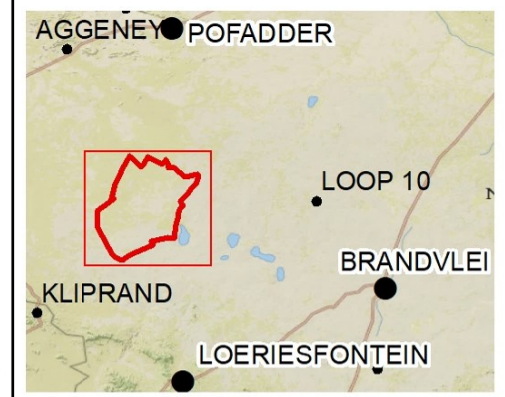
Date: 2019/07/18
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Gifkop Prospecting Right Application Northern Cape C-Plan
 1304 BMM Prospecting Right Application

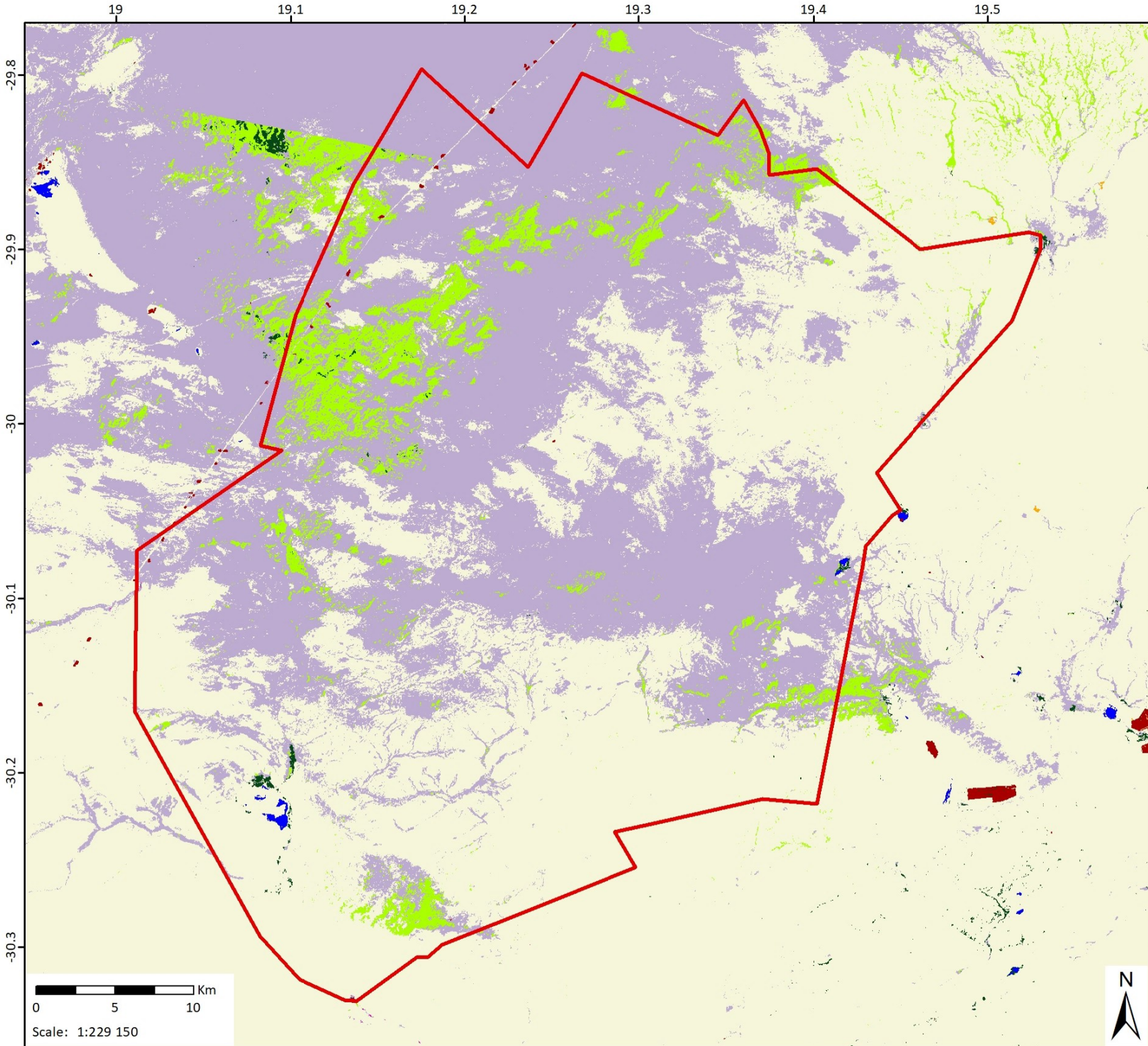
- Legend**
-  Gifkop Prospecting Application Area
 - Northern Cape Conservation Plan**
 -  Critical Biodiversity Area One
 -  Critical Biodiversity Area Two
 -  Ecological Support Area
 -  Other Natural Areas



Data Sources:
 CSG; ESRI; SANBI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Gifkop_C-Plan_190718_PH

Date: 2019/07/18
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW



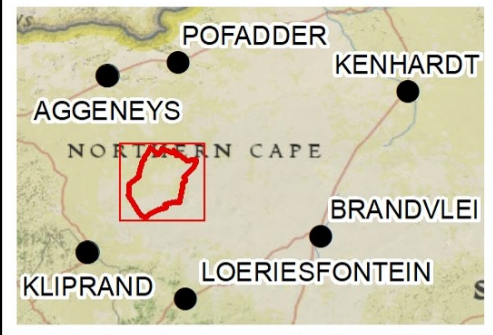


Gifkop Prospecting Right Application Land Cover

1304 BMM Prospecting Right Applications

Legend

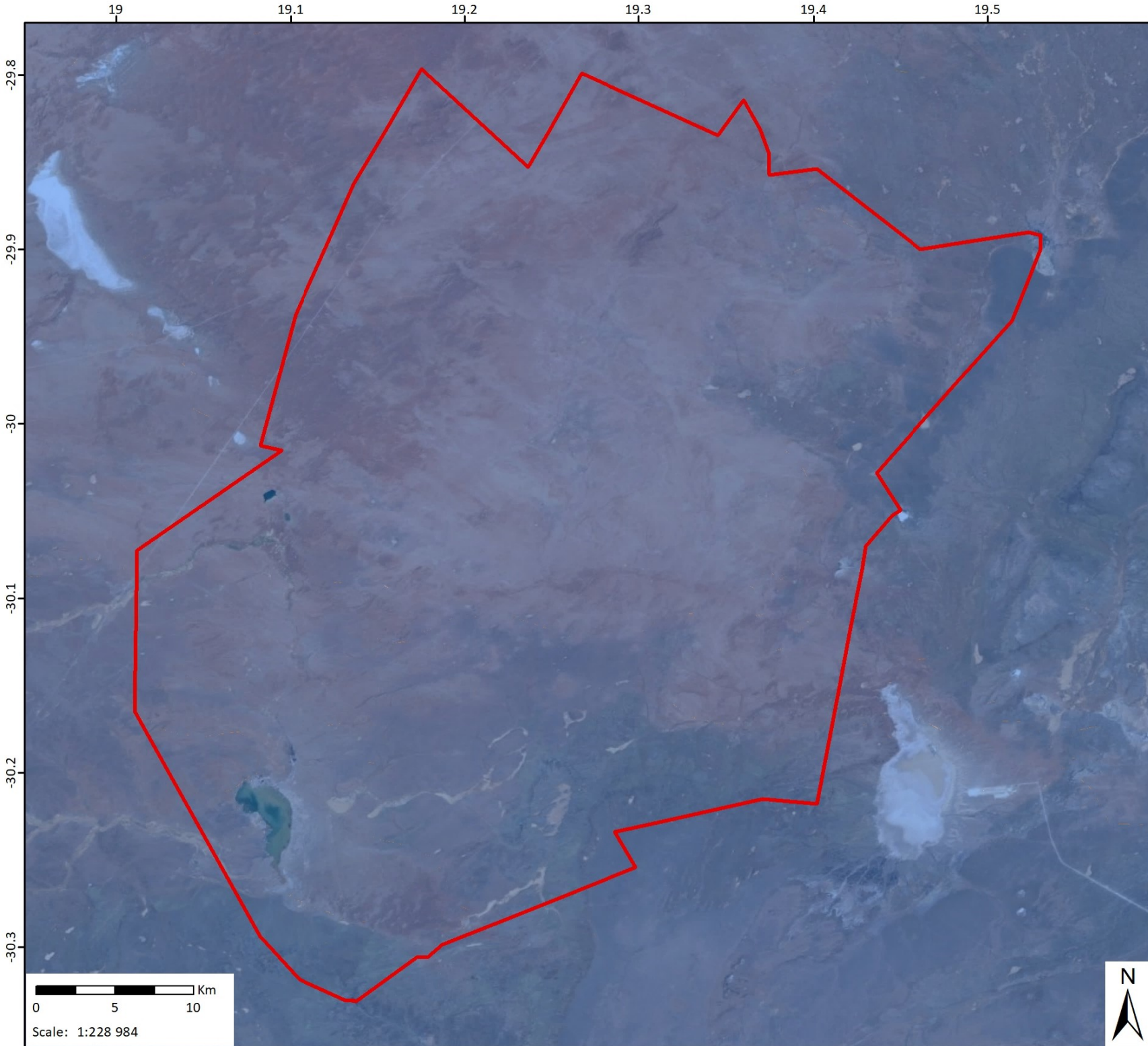
-  Gifkop Prospecting Application Area
- Land Cover**
-  Bare None Vegetated
-  Cultivation
-  Grassland
-  Forest/Thicket/Bush/Woodland
-  Low shrubland
-  Mining Infrastructure
-  Plantations
-  Shrubland fynbos
-  Urban Areas
-  Surface Water Features



Data Sources:
 CSG; ESRI; GEOTERRAIMAGE; DEA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Ref: Gifkop_LandCover_190711_PH

Date: 2019/07/18
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW

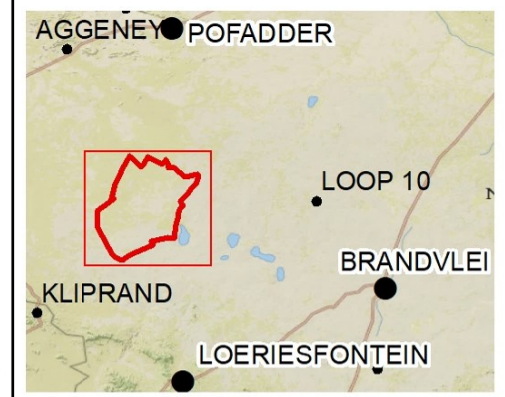




**Gifkop Prospecting Right
Application Ecosystem Protection Level**
1304 BMM Prospecting Right Application

Legend

-  Gifkop Prospecting Application Area
- Ecosystem Protection Level**
-  Well protected
-  Moderately protected
-  Poorly protected
-  Not protected
-  N/A

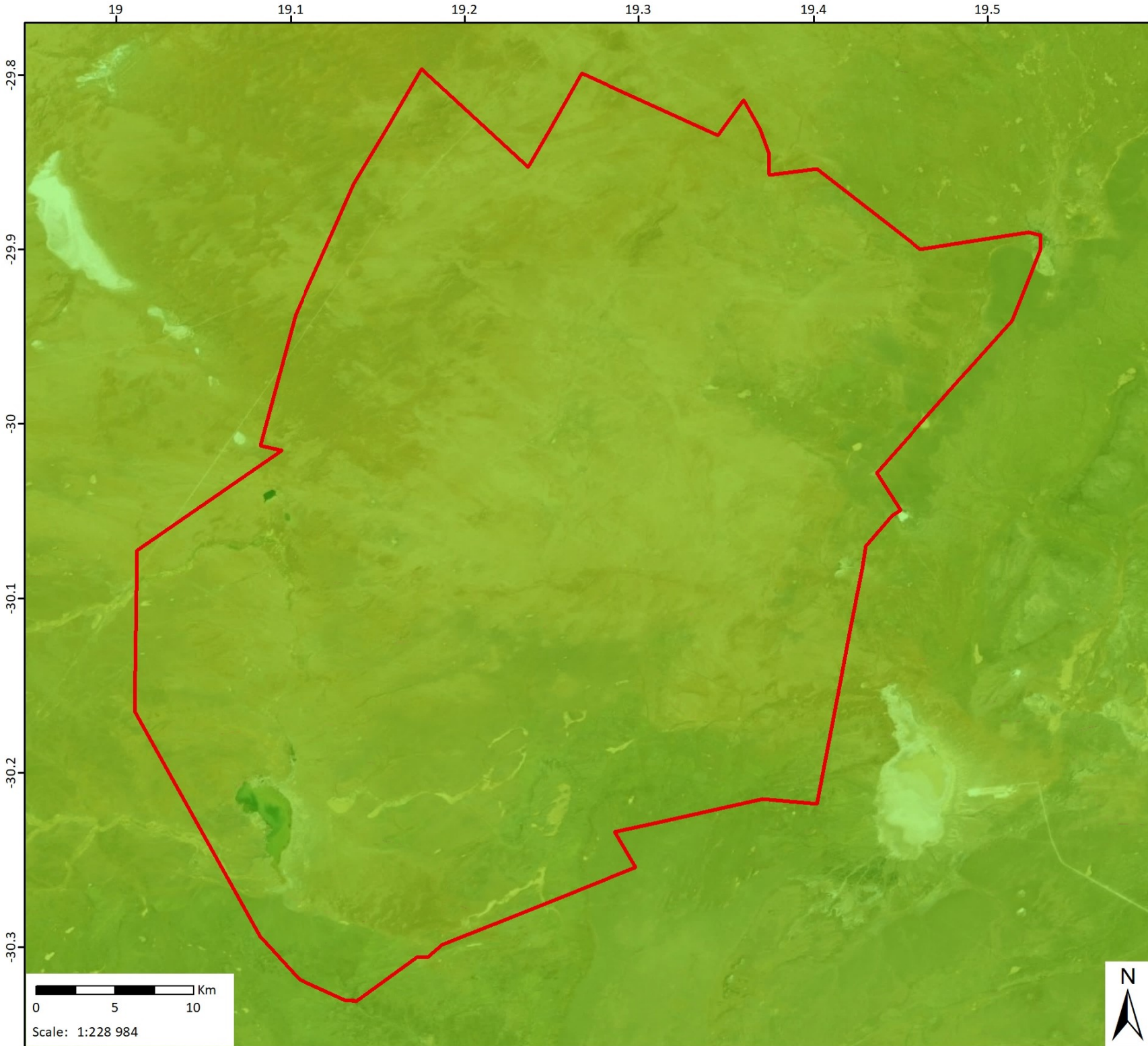


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Datum: WGS 1984

Ref: Gifkop_ProtecLvl_190718_PH

Date: 2019/07/18
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW





Gifkop Prospecting Right Application Ecosystem Threat Status

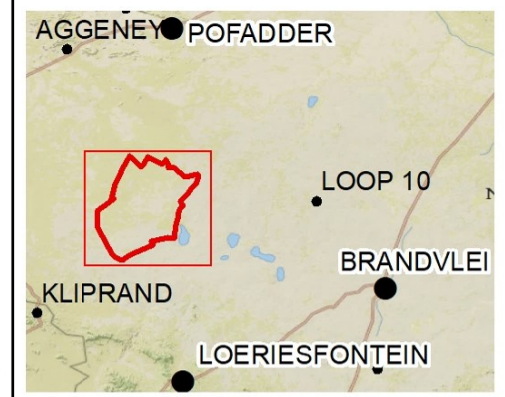
1304 BMM Prospecting Right Application

Legend

- Gifkop Prospecting Application Area

Ecosystem Threat Status

- Critically Endangered
- Endangered
- Vulnerable
- Least Threatened

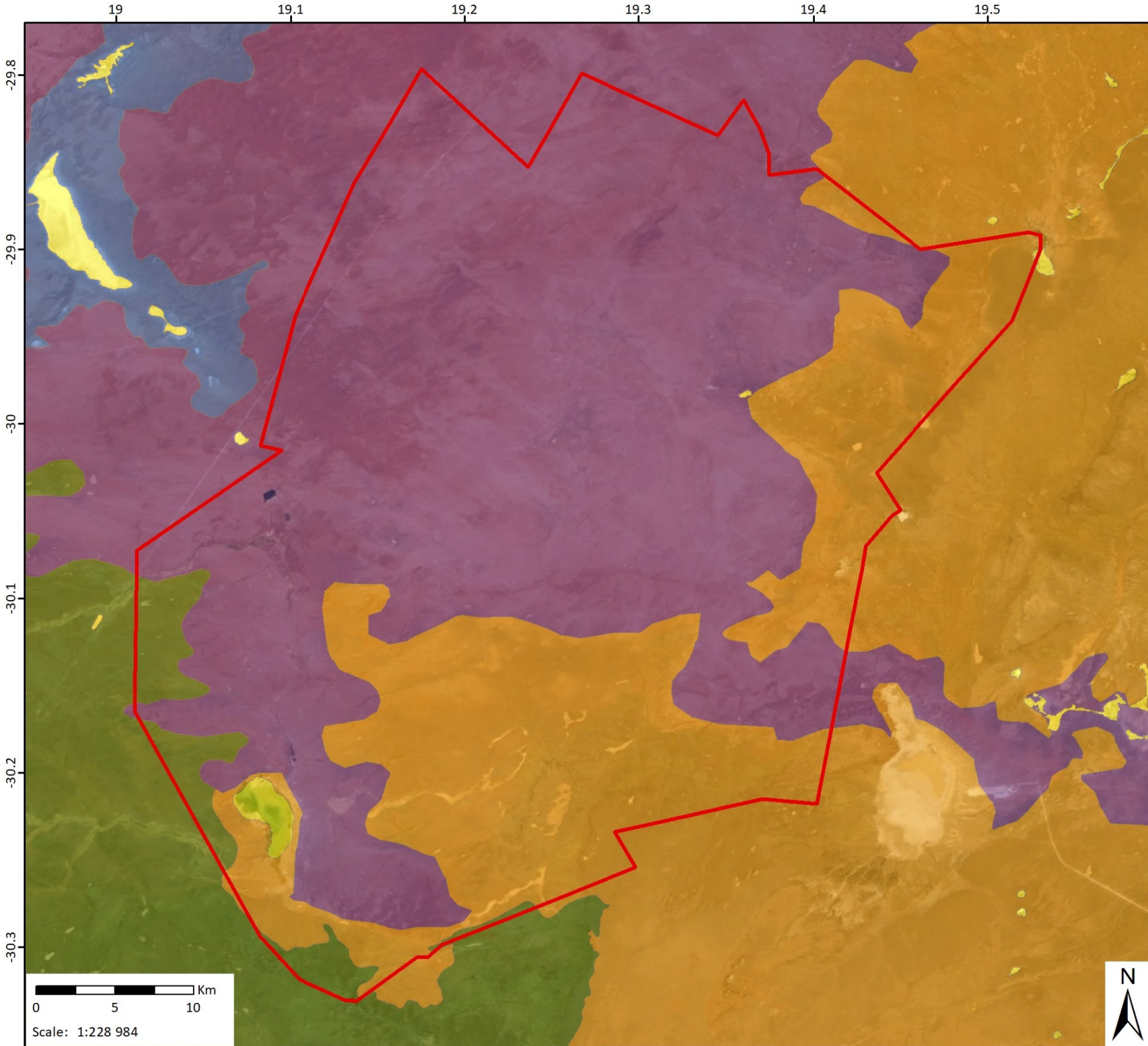


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 Datum: WGS 1984

Ref: Gifkop_Threat Status_190718_PH

Date: 2019/07/18
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Gifkop Prospecting Right Application Vegetation

1304 BMM Prospecting Right Application

Legend


 Gifkop Prospecting Application Area


Mucina and Rutherford Vegetation

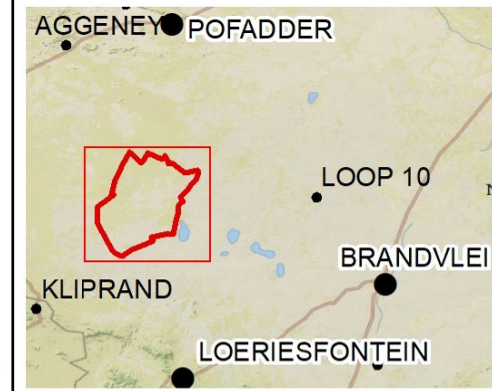
 Bushmanland Arid Grassland

 Bushmanland Basin Shrubland

 Bushmanland Sandy Grassland

 Bushmanland Vloere

 Western Bushmanland Klipveld



Data Sources:

CSG; ESRI; Mucina & Rutherford

Coord System: GCS WGS 1984

Datum: WGS 1984

Ref: Gifkop_190718_PH

Date: 2019/07/18

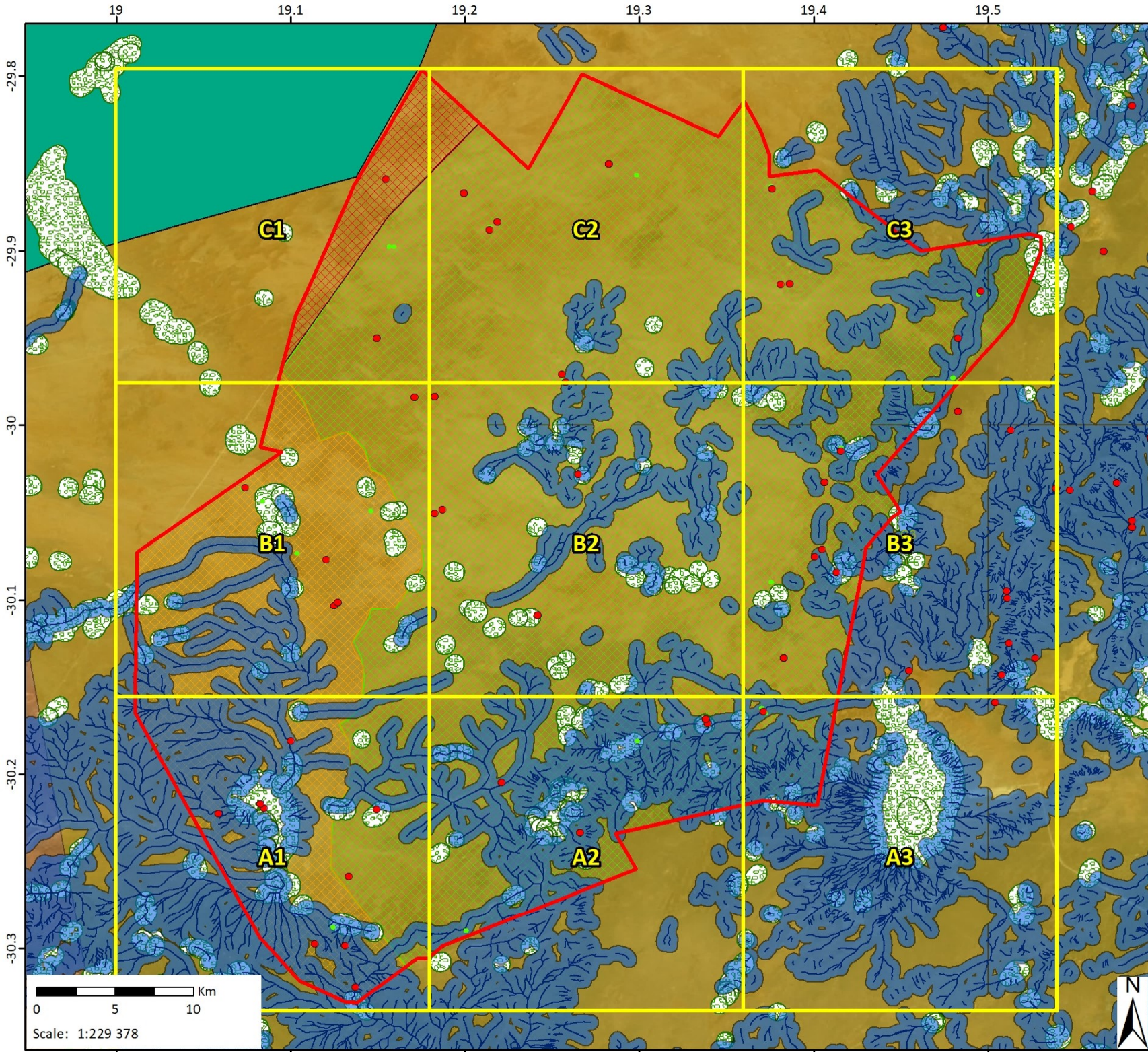
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Reviewed: GP

Approved: LW





Gifkop Proposed Prospecting Area Composite Map: Overview

1304 BMM Prospecting Rights Applications

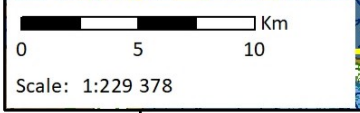
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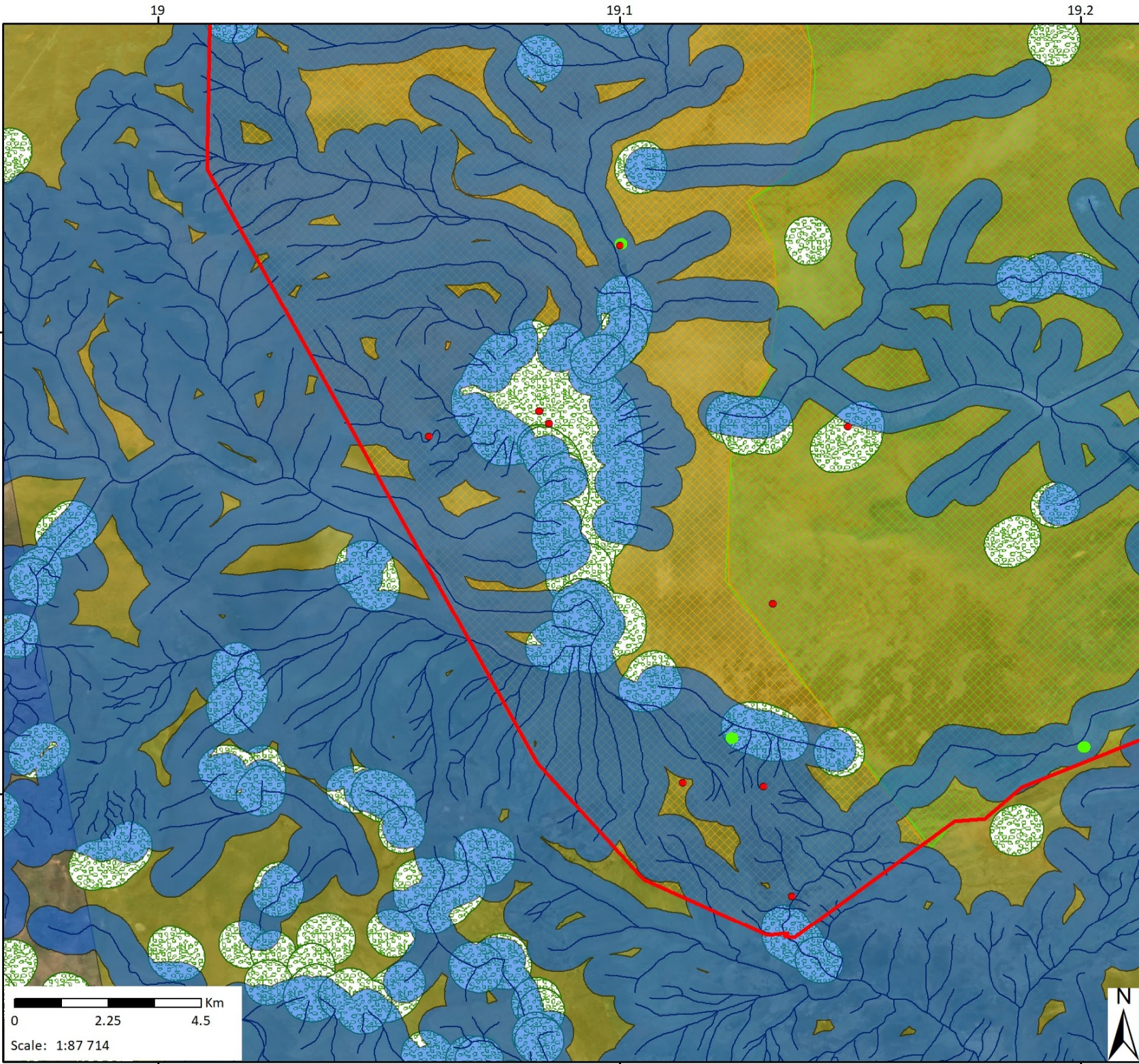
- Map Index Grid
 - Gifkop Proposed Prospecting Boundary
 - NGA Boreholes
 - Gifkop Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Gifkop Composite Map_190808_PH

Date: 2019/09/03
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Gifkop Proposed Prospecting Area Composite Map: A1

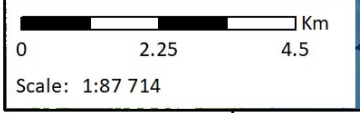
1304 BMM Prospecting Rights Applications

- Legend**
- Gifkop Proposed Prospecting Boundary
 - NGA Boreholes
 - Gifkop Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas**
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Gifkop Composite Map_190808_PH

Date: 2019/09/02
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW

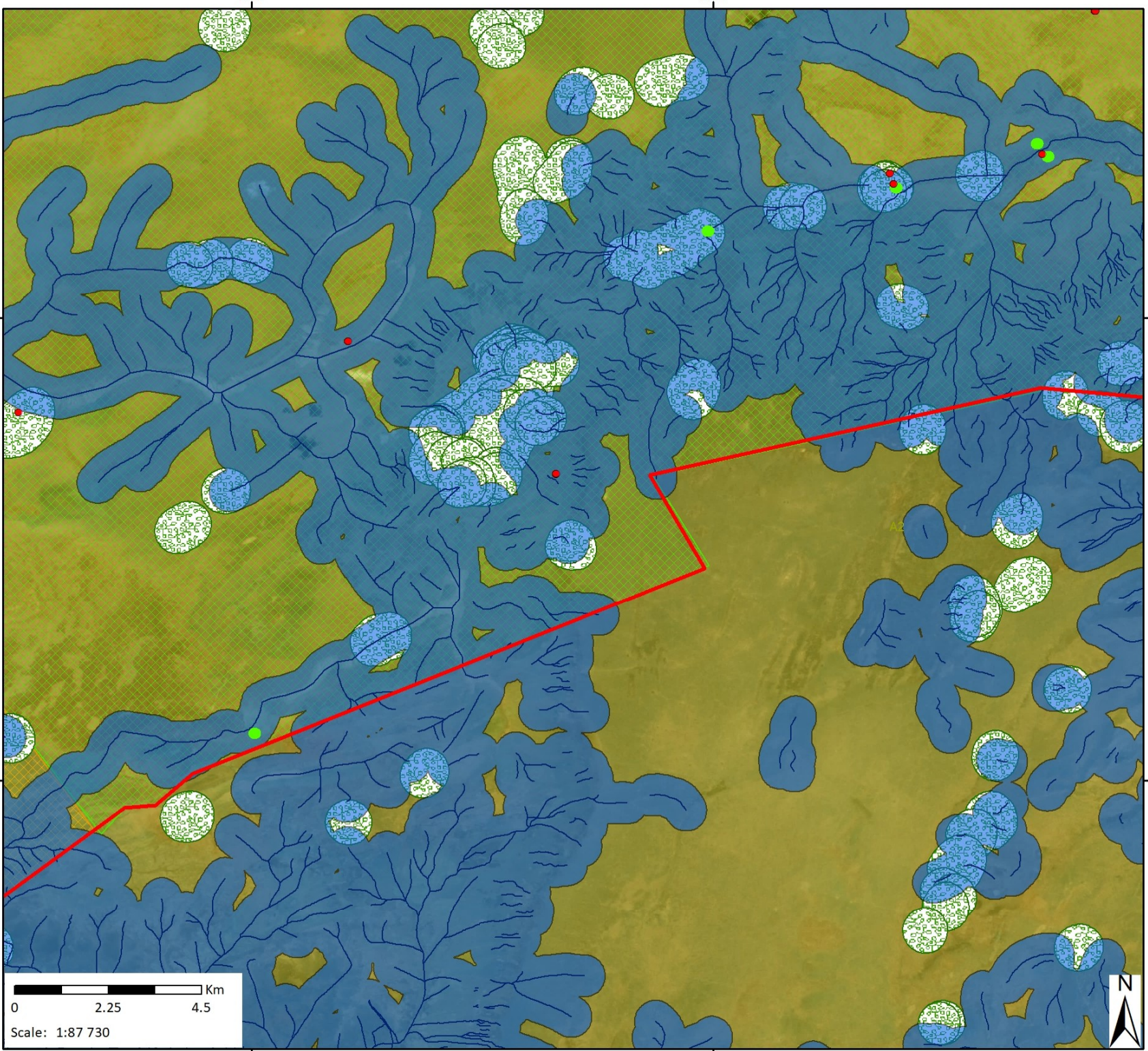


19.2

19.3

-30.2

-30.3



Gifkop Proposed Prospecting Area
Composite Map: A2
 1304 BMM Prospecting Rights Applications

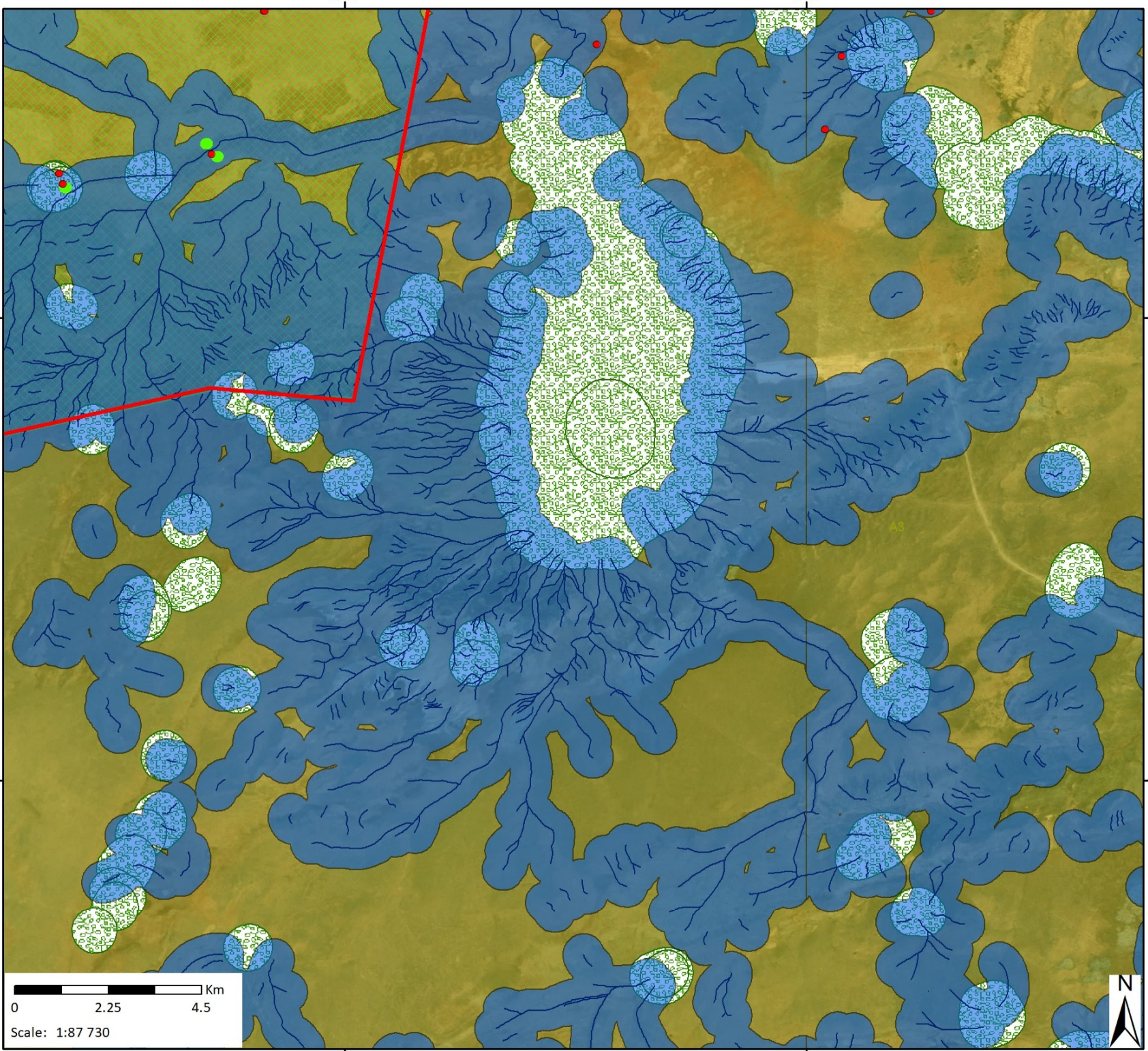
- Legend**
- Gifkop Proposed Prospecting Boundary
 - NGA Boreholes
 - Gifkop Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Gifkop Composite Map_190808_PH

Date: 2019/09/02
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Gifkop Proposed Prospecting Area Composite Map: A3

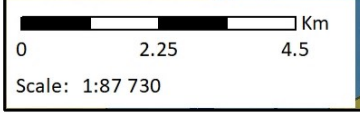
1304 BMM Prospecting Rights Applications

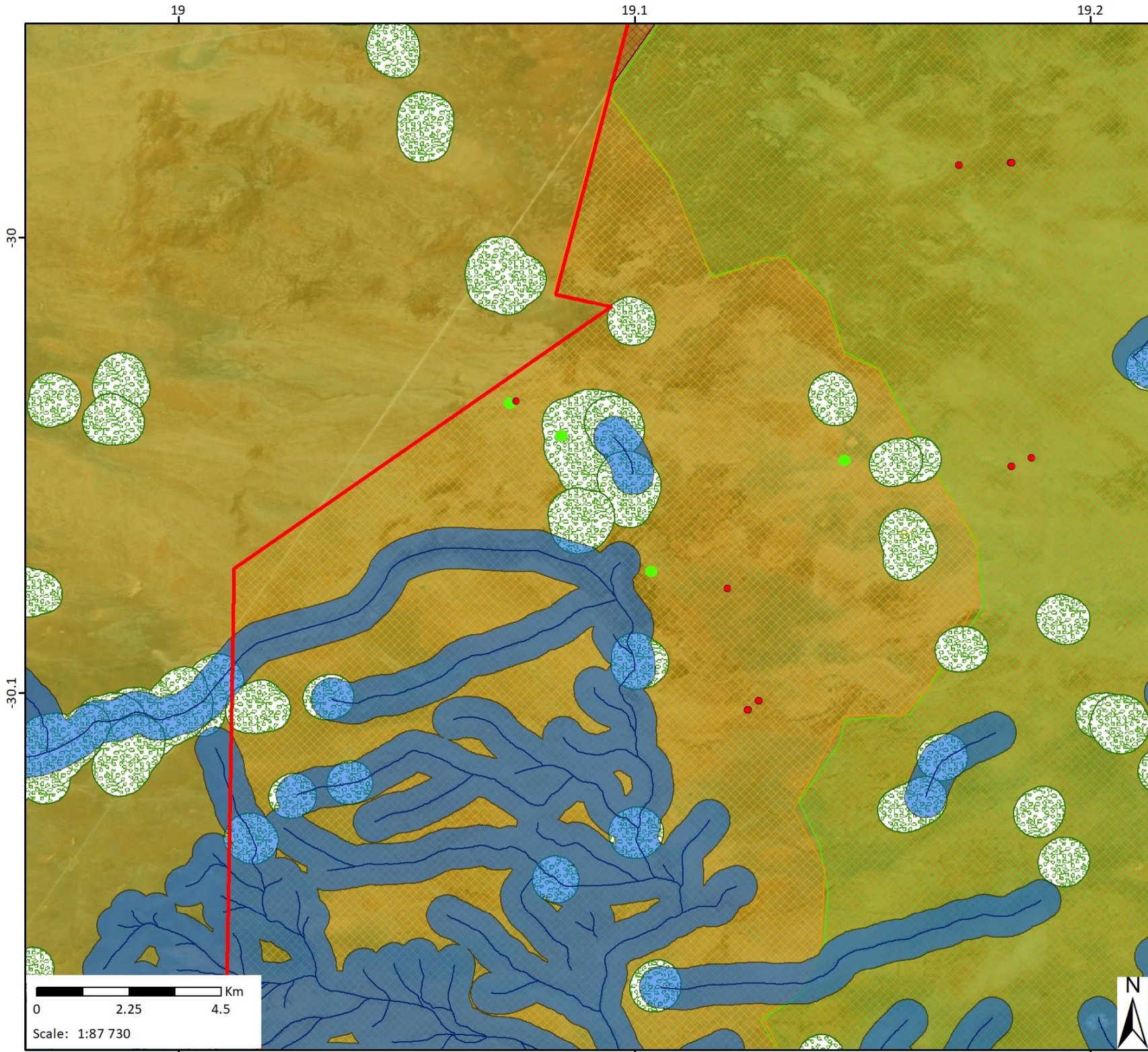
- Legend**
- Gifkop Proposed Prospecting Boundary
 - NGA Boreholes
 - Gifkop Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas**
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Gifkop Composite Map_190808_PH














Date: 2019/09/02
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





**Gifkop Proposed Prospecting Area
Composite Map: B1**
1304 BMM Prospecting Rights Applications

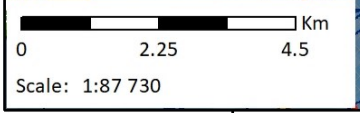
Legend

-  Gifkop Proposed Prospecting Boundary
-  NGA Boreholes
-  Gifkop Man Made Structures 30m Buffer
-  Rivers Merged
-  Rivers 500m Buffer
-  NFEPA Wetlands 500m Buffer
-  Biodiversity Sensitivity Very High
-  Biodiversity Sensitivity High
-  Biodiversity Sensitivity Low
-  Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas**
-  Karoo Central Astronomy Advantage Area 1
-  Karoo Central Astronomy Advantage Area 2
-  Karoo Central Astronomy Advantage Area 3



Data Sources:
CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984
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Date: 2019/09/02
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW

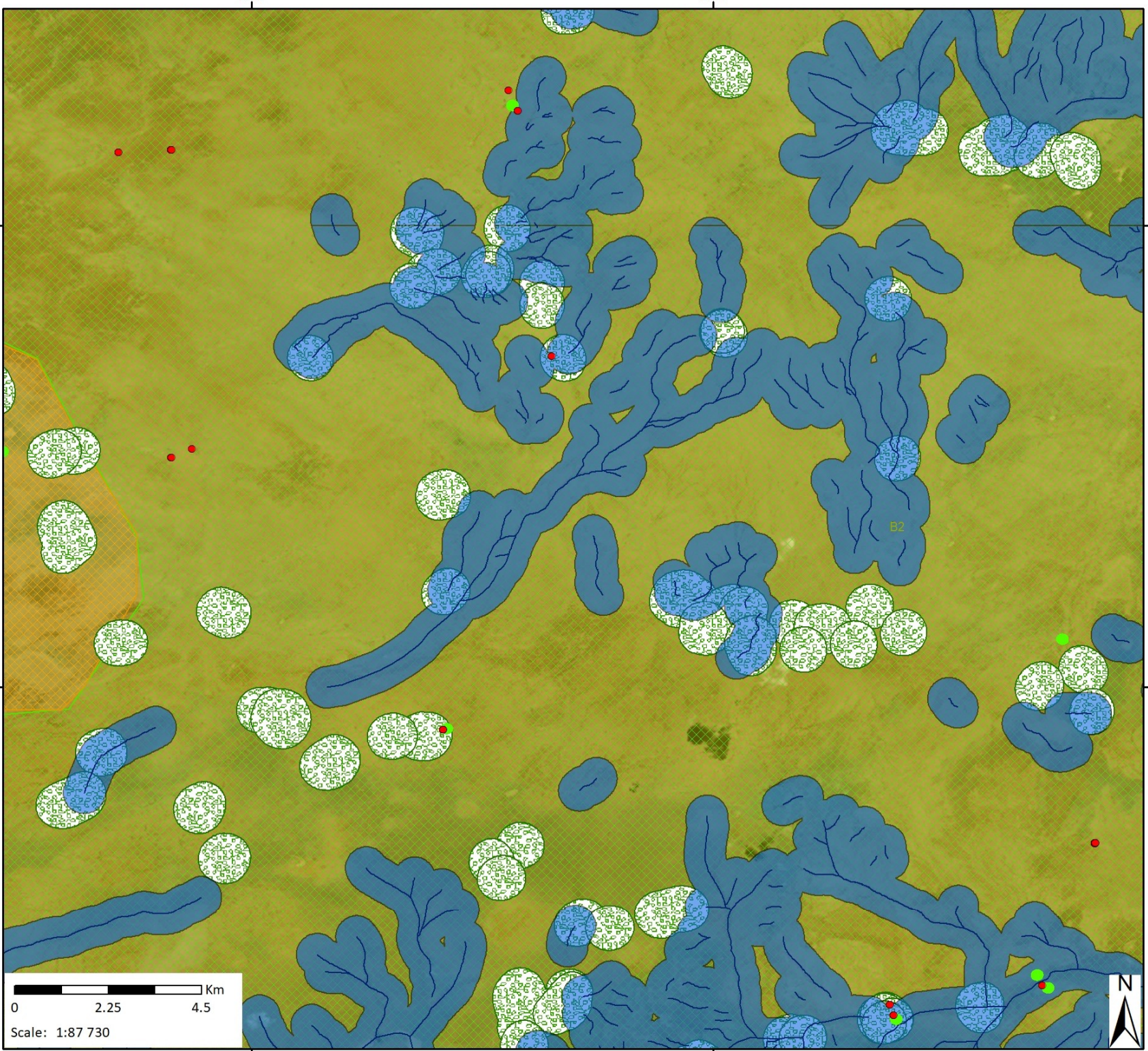


19.2

19.3













-30

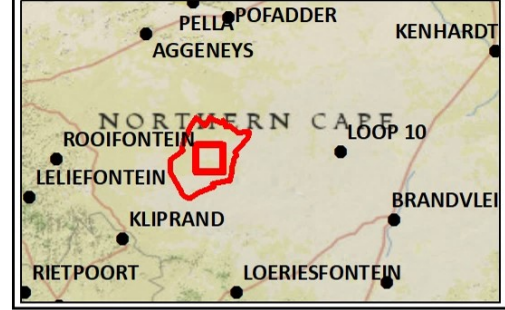
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**Gifkop Proposed Prospecting Area
Composite Map: B2**
1304 BMM Prospecting Rights Applications

Legend

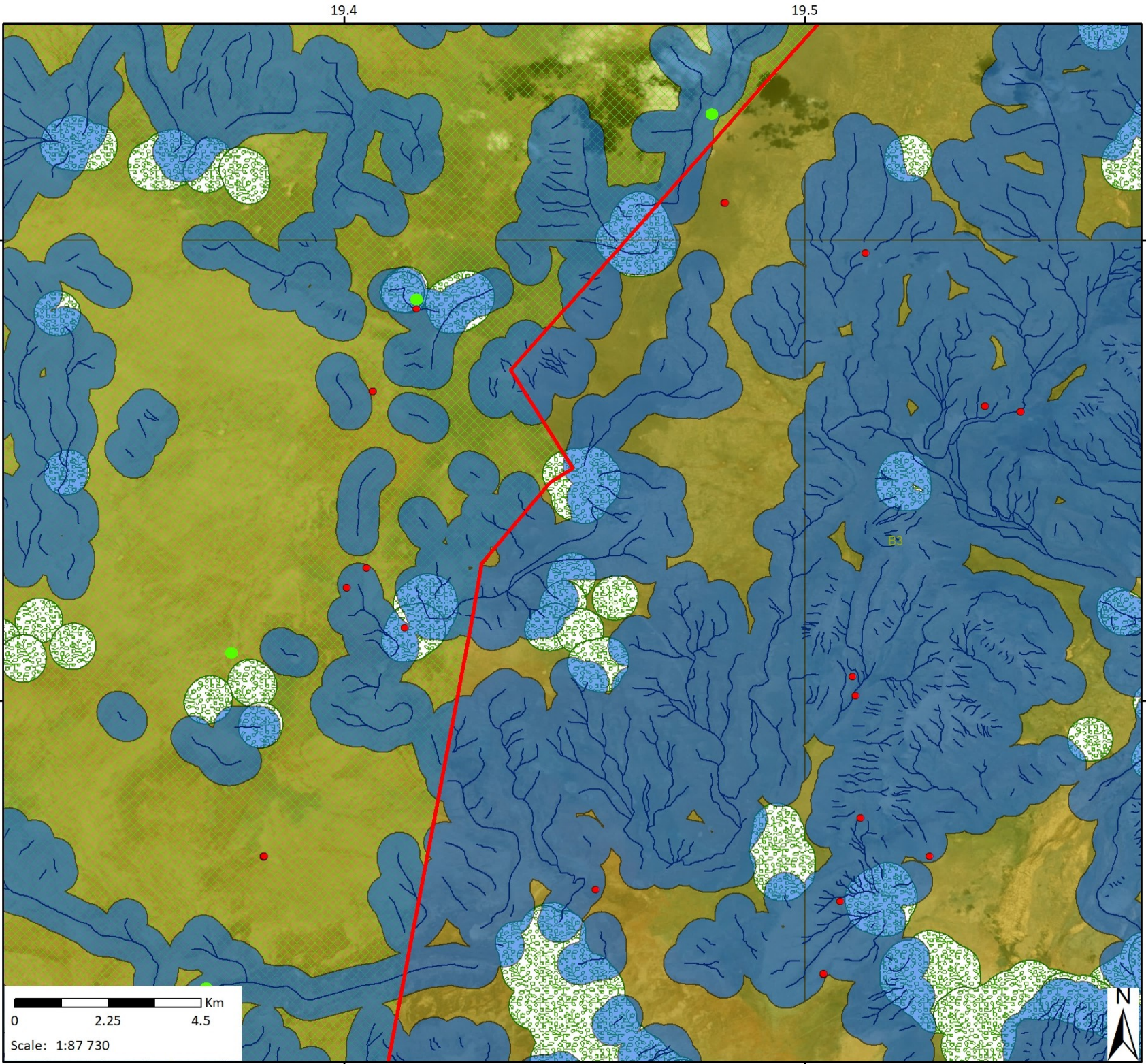
-  Gifkop Proposed Prospecting Boundary
-  NGA Boreholes
-  Gifkop Man Made Structures 30m Buffer
-  Rivers Merged
-  Rivers 500m Buffer
-  NFEPA Wetlands 500m Buffer
-  Biodiversity Sensitivity Very High
-  Biodiversity Sensitivity High
-  Biodiversity Sensitivity Low
-  Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas**
-  Karoo Central Astronomy Advantage Area 1
-  Karoo Central Astronomy Advantage Area 2
-  Karoo Central Astronomy Advantage Area 3



Data Sources:
CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984
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Date: 2019/09/02
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW





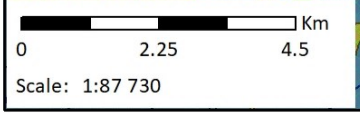
**Gifkop Proposed Prospecting Area
Composite Map: B3**
1304 BMM Prospecting Rights Applications

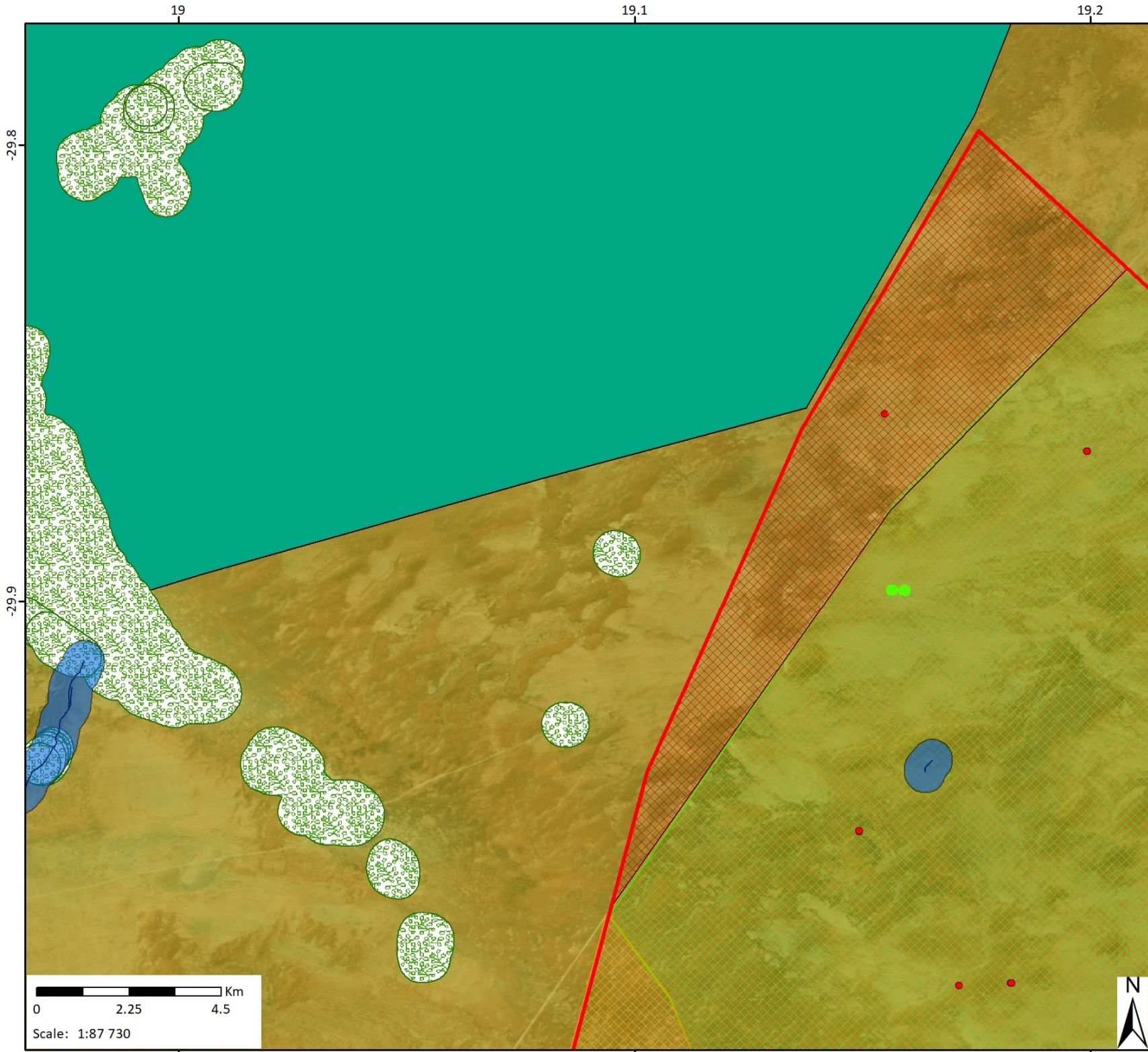
- Legend**
- Gifkop Proposed Prospecting Boundary
 - NGA Boreholes
 - Gifkop Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
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 - Square Kilometre Array (SKA) Areas**
 - Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: Gifkop Composite Map_190808_PH

Date: 2019/09/02
EIMS Ref: 1304
Compiled: PH
Reviewed: GP
Approved: LW





Gifkop Proposed Prospecting Area Composite Map: C1

1304 BMM Prospecting Rights Applications

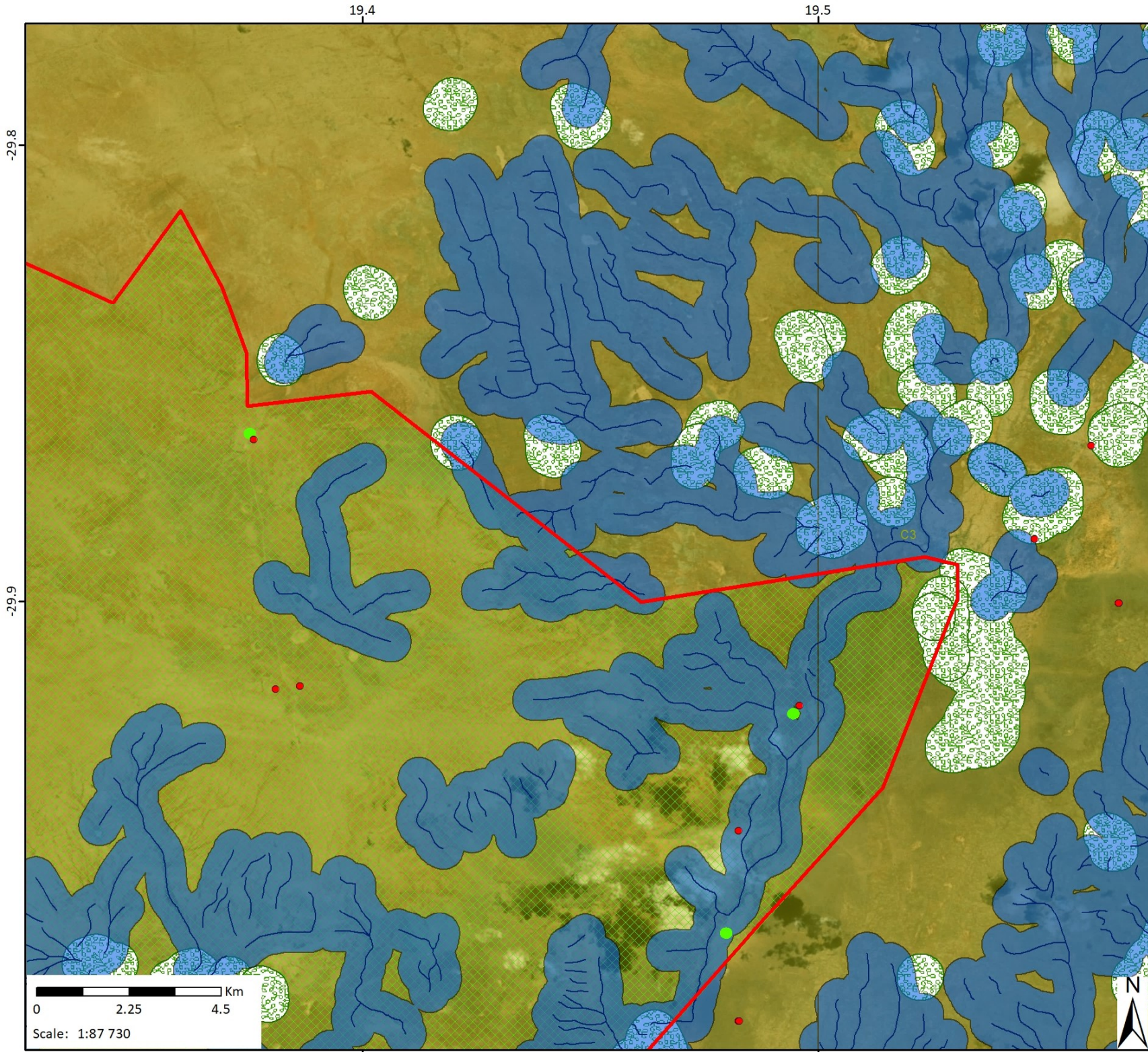
- Legend**
- Gifkop Proposed Prospecting Boundary
 - NGA Boreholes
 - Gifkop Man Made Structures 30m Buffer
 - Rivers Merged
 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
 - Biodiversity Sensitivity Very High
 - Biodiversity Sensitivity High
 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Gifkop Composite Map_190808_PH

Date: 2019/09/02
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW





Gifkop Proposed Prospecting Area Composite Map: C3

1304 BMM Prospecting Rights Applications

- Legend**
- Gifkop Proposed Prospecting Boundary
 - NGA Boreholes
 - Gifkop Man Made Structures 30m Buffer
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 - Rivers 500m Buffer
 - NFEPA Wetlands 500m Buffer
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 - Biodiversity Sensitivity Low
 - Important Bird and Biodiversity Areas
- Square Kilometre Array (SKA) Areas**
- Karoo Central Astronomy Advantage Area 1
 - Karoo Central Astronomy Advantage Area 2
 - Karoo Central Astronomy Advantage Area 3



Data Sources:
 CSG; ESRI; PSG; SRK; TBC; NGA; NFEPA
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: Gifkop Composite Map_190808_PH

Date: 2019/09/02
 EIMS Ref: 1304
 Compiled: PH
 Reviewed: GP
 Approved: LW

