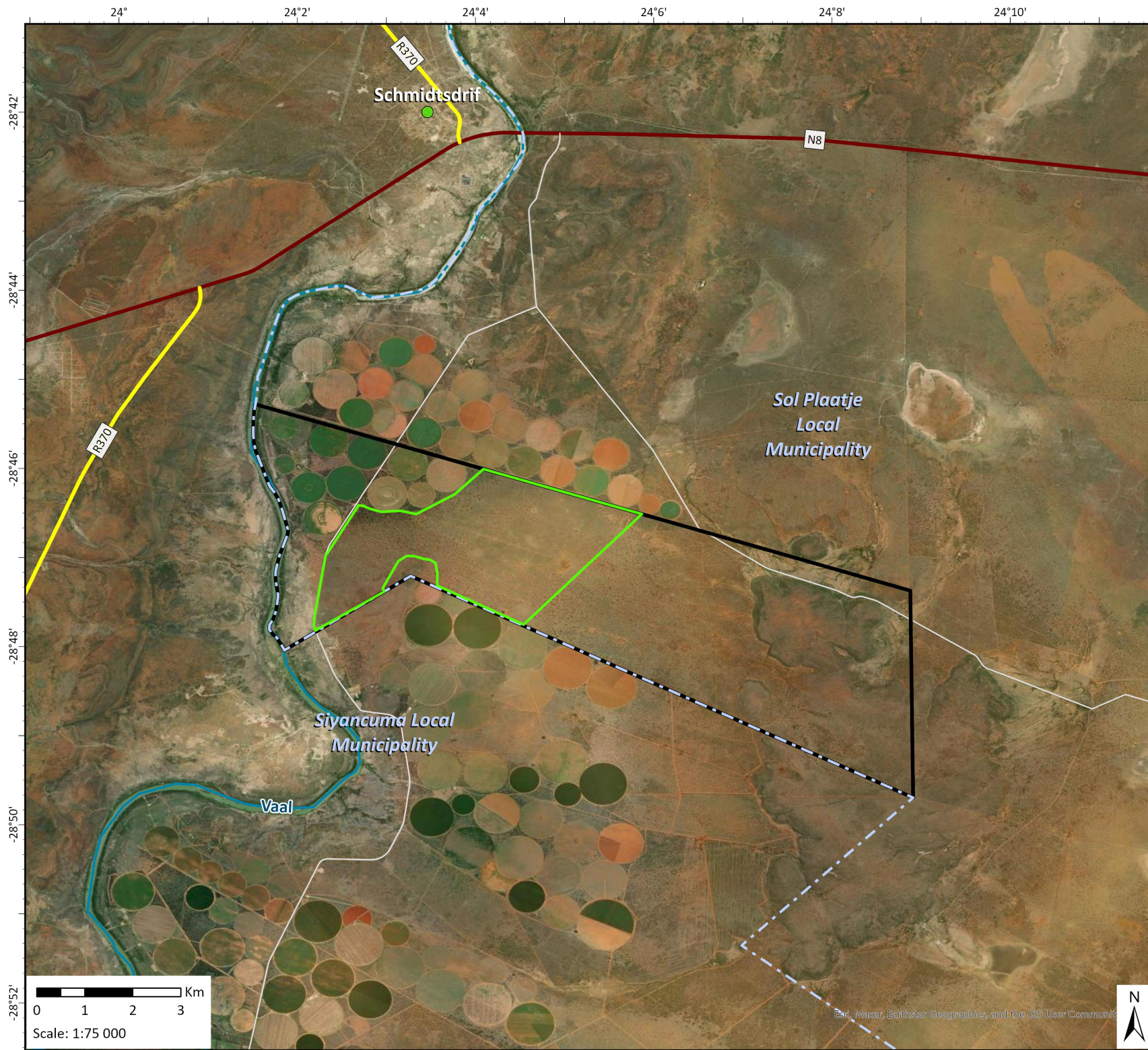


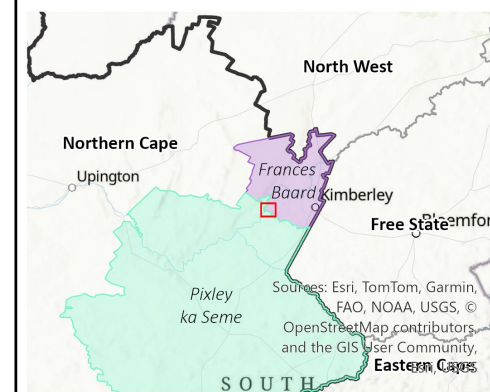


Locality Map

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

-  Affected Farm Portion
-  Area to be assessed
-  Local Municipality
-  Places
-  NFEPA Rivers
- Roads**
 -  National Road
 -  Main Road
 -  Secondary Road

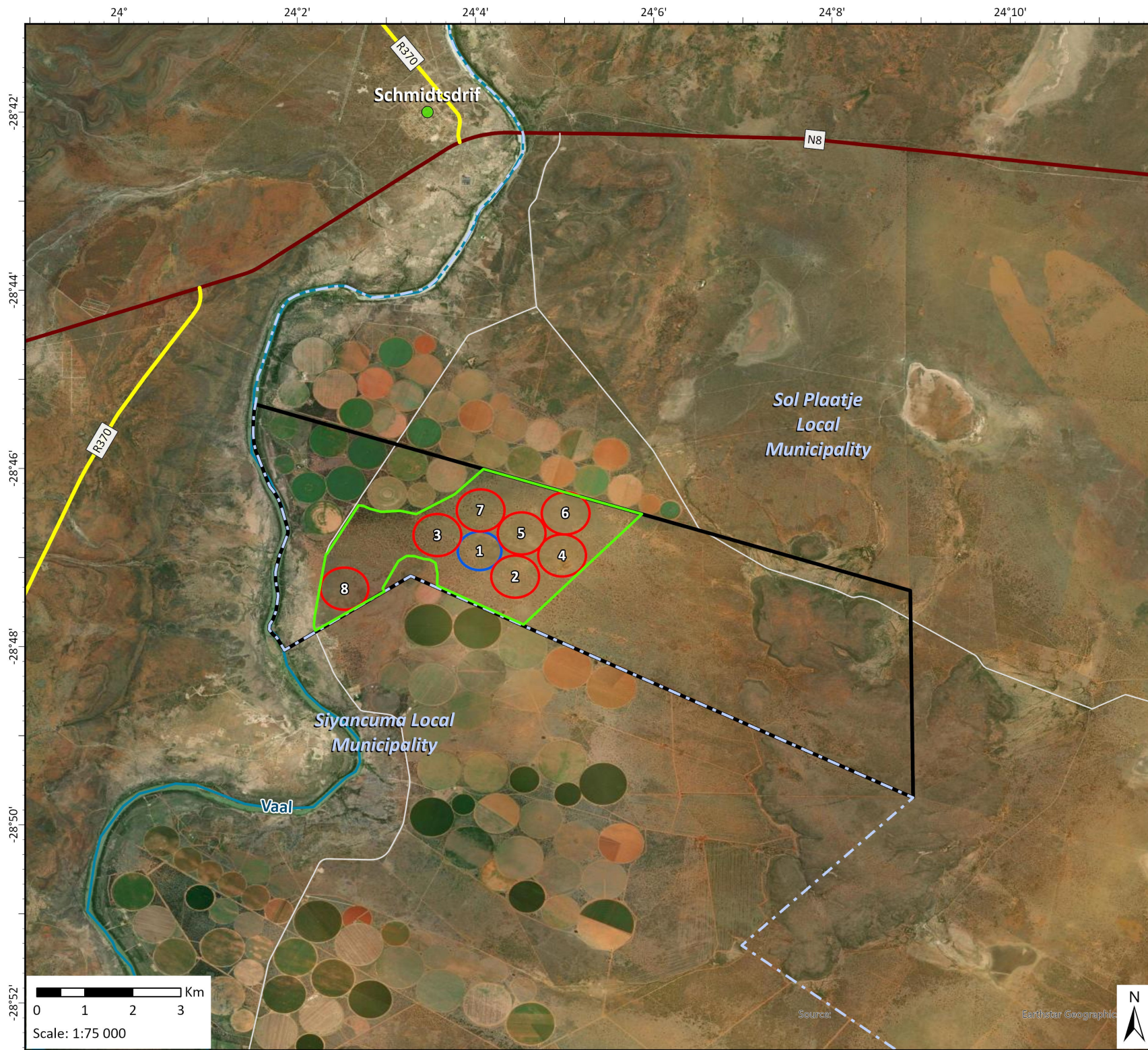


Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1683_Locality

Date: 2025/04/15
 EIMS Ref: 1683
 Compiled: JW
 Reviewed: MN
 Approved: LW





Layout Map

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

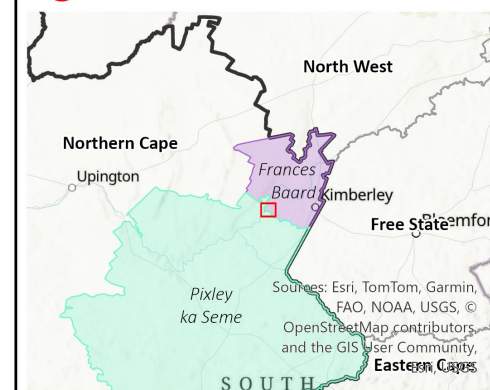
- Affected Farm Portion
- Area to be assessed
- Local Municipality
- Places
- NFEPA Rivers

Roads

- National Road
- Main Road
- Secondary Road

Proposed Pivots

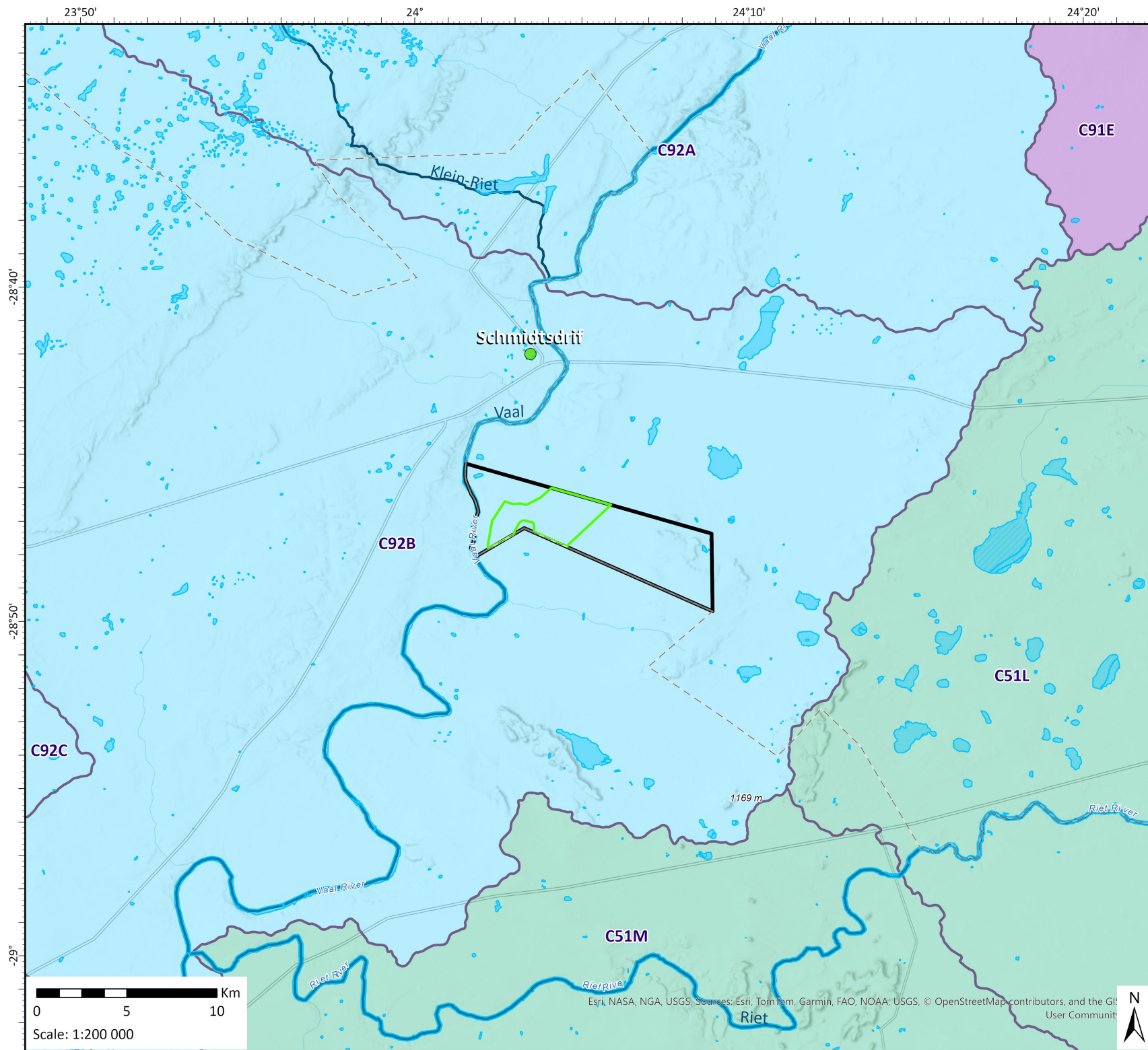
- 50 ha
- 60 ha



Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1683_Layout

Date: 2025/04/15
 EIMS Ref: 1683
 Compiled: JW
 Reviewed: MN
 Approved: LW



Surface Water Features Map

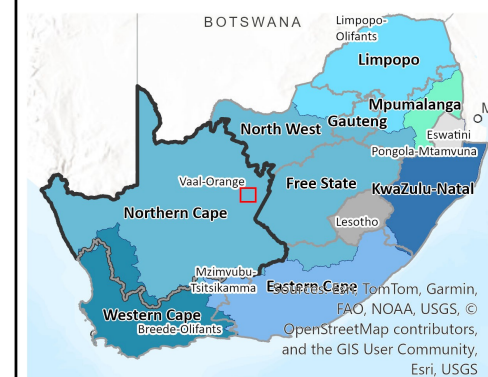
1683 Genade Boerdery Middelplaats Pivot EIA

Legend

- Affected Farm Portion
- Area to be assessed
- Places
- NFEPA Rivers
- NFEPA Wetlands
- Quaternary Catchments

Tertiary Catchments

- C51
- C91
- C92



Data Sources:

CSG; ESRI; MDB; SANBI; DWS
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1683_SurfaceWater

Date: 2025/04/14

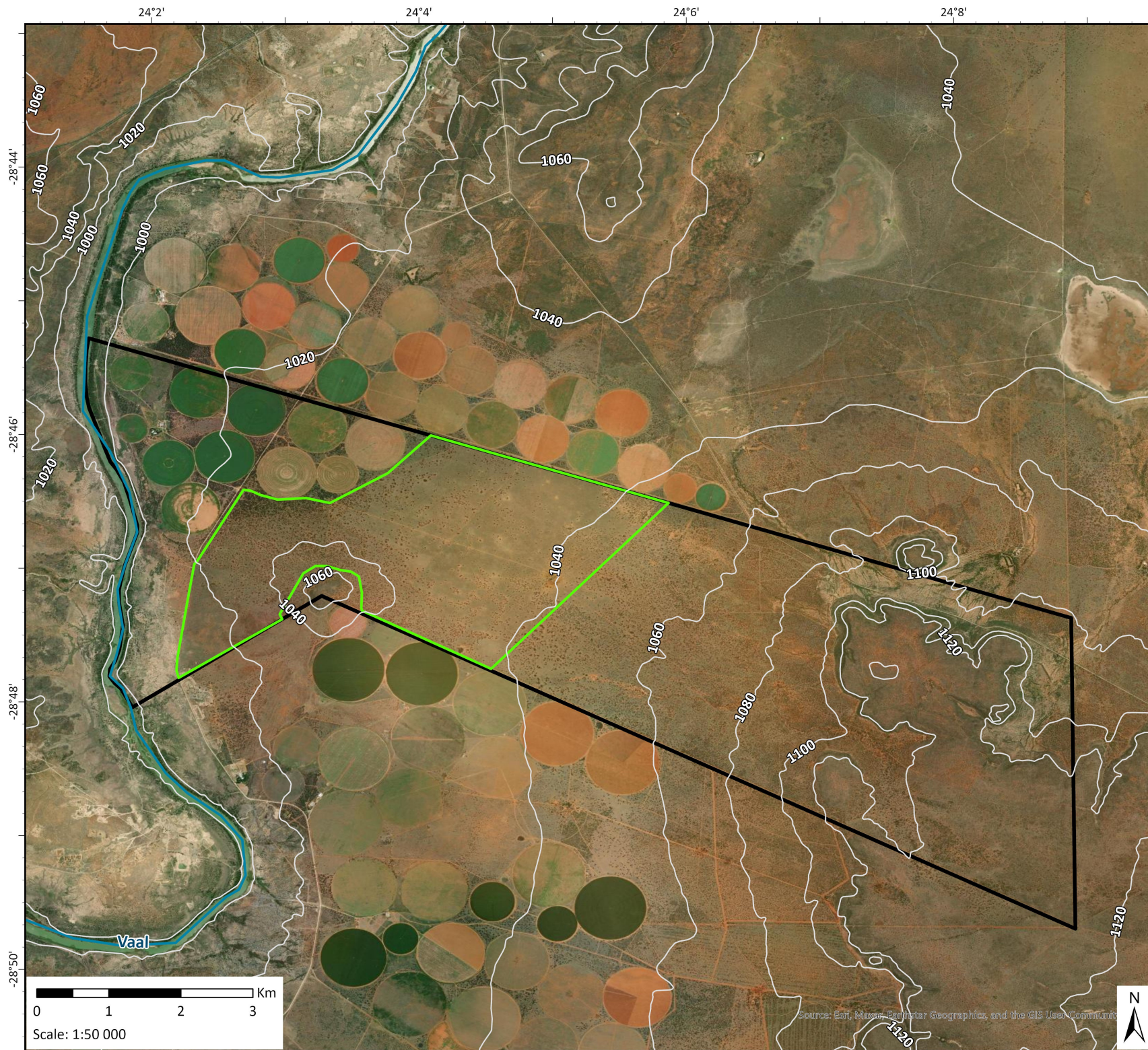
EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW



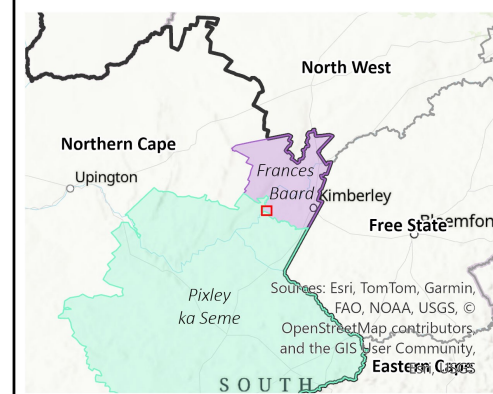


Topography Map

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

-  Affected Farm Portion
-  Area to be assessed
-  NFEPA Rivers
-  Contours (20m)

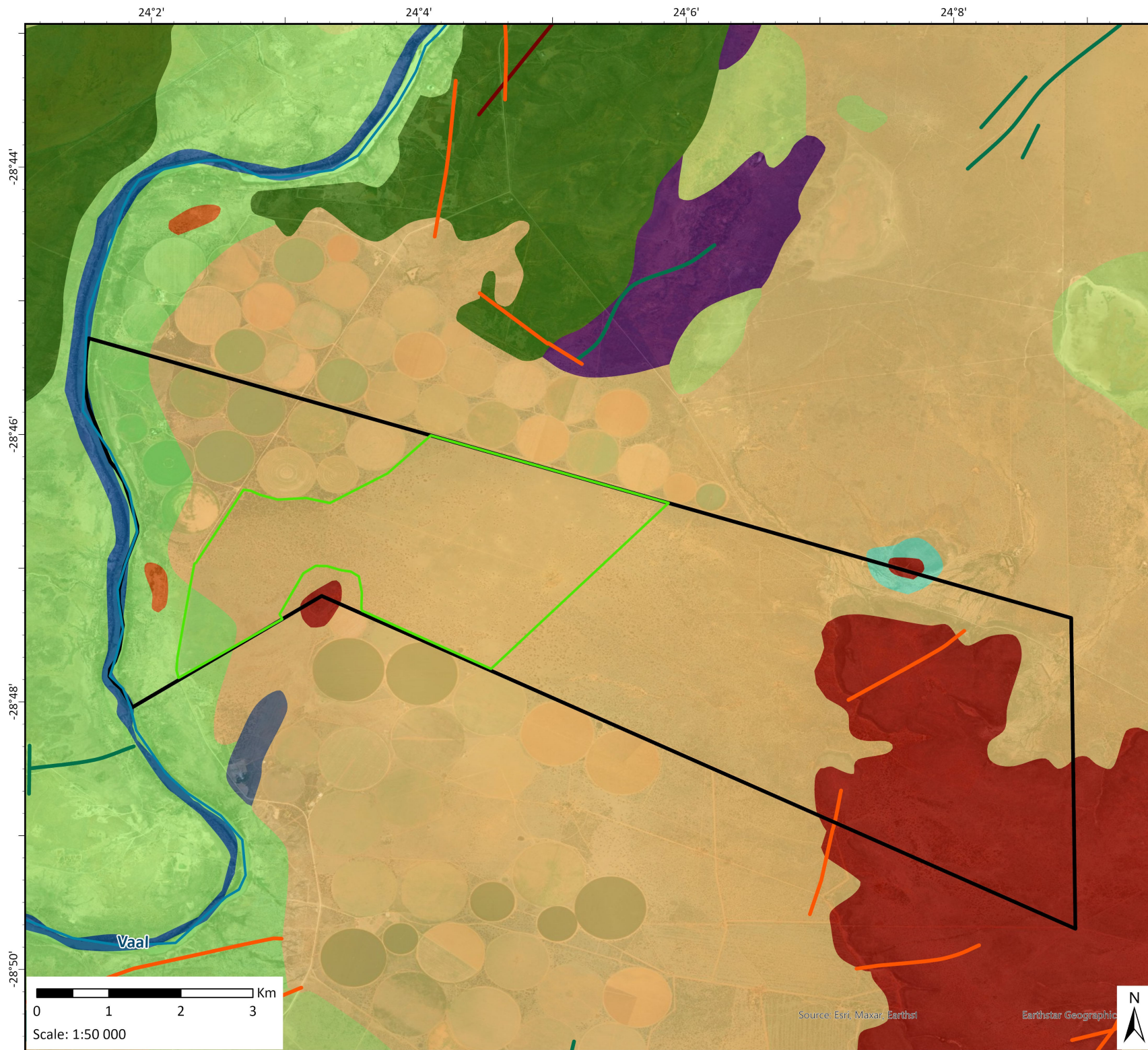


Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1683_Topography

Date: 2025/04/14
EIMS Ref: 1683
Compiled: JW
Reviewed: MN
Approved: LW



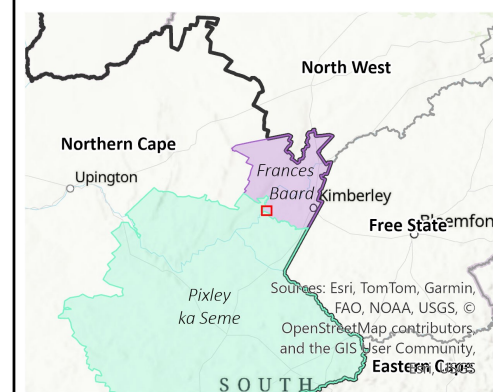


Simplified Geology Map

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

- | | |
|--|---|
| Affected Farm Portion | Gordonia - Aeolian sand (cover sands and sand dunes) |
| Area to be assessed | Karoo Dolerite - Network of dolerite sills, sheets and dykes, mainly intrusive into the Karoo Supergroup |
| NFEPA Rivers | Vryburg - Quartzitic sandstone, mudrock, andesitic/basaltic lava, siltstone, clastic dolomite/limestone, minor conglomerate, tuff and chert |
| Simplified Geology | |
| Calcrete and surface limestone | Vryburg - Quartzitic sandstone, mudrock, andesitic/basaltic lava, siltstone, clastic dolomite/limestone, minor conglomerate, tuff and chert |
| Calcrete, calcified pandune and surface limestone | Whitehill - Black (white-weathering) carbonaceous shale |
| River terrace gravel, diamondiferous in places | Dyke, diabase |
| Water | Dyke, dolerite |
| Allanridge - Andesitic lavas, tuffs | Dyke, kimberlite |
| Dwyka - Diamictite (polymictic clasts, set in a poorly sorted, fine-grained matrix) with varved shale, mudstone with dropstones and fluvioglacial gravel common in the north | |



Data Sources:

CSG; ESRI; MDB; SANBI; Council for Geoscience
Coord System: GCS WGS 1984

Datum: WGS 1984

Units: Degree

Ref: 1683_Geology

Date: 2025/04/14

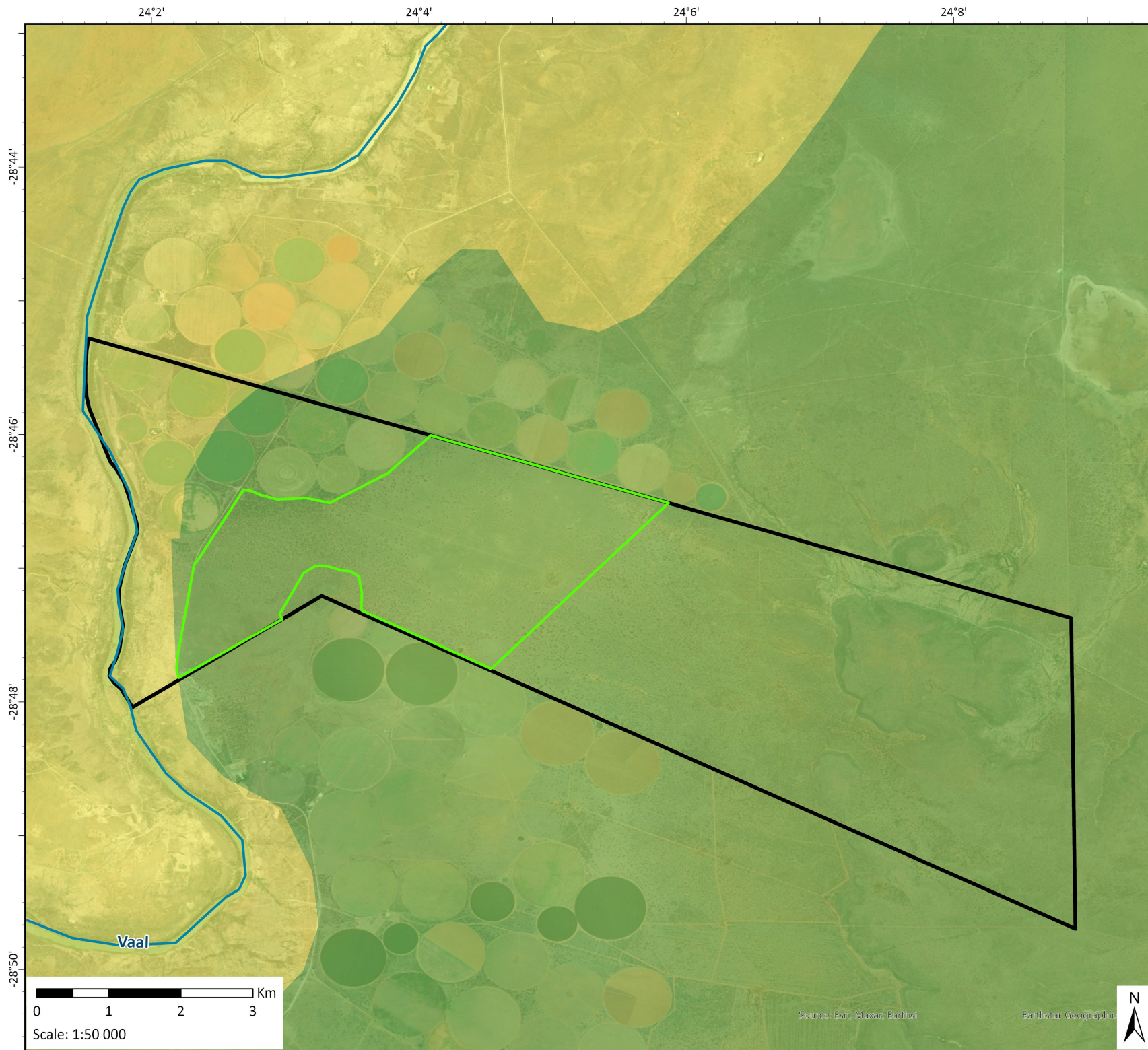
EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW





Simplified Soils Map

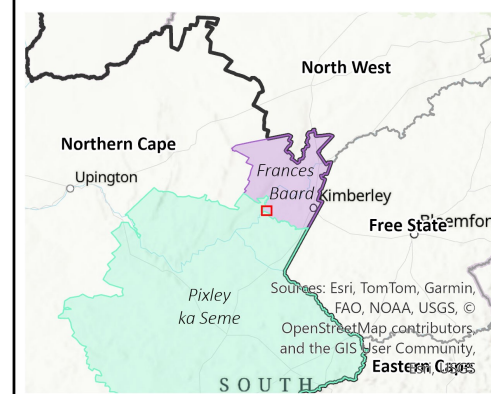
1683 Genade Boerdery Middelplaats Pivot EIA

Legend

-  Affected Farm Portion
-  Area to be assessed
-  NFEPA Rivers

Soils

-  Dominant Soil: Chromic Cambisols (CMx)
- Red, massive or weakly structured soils with high base status (association of well drained Lixisols, Cambisols, Luvisols)
-  Dominant Soil: Petric Calcisols (CLp)
- Soils with minimal development, usually shallow on hard or weathering rock, with or without intermittent diverse soils. (association of Leptosols, Regosols, Calcisols and Durisols. In addition one or more of Cambisols, Luvisols)



Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1683_SimplifiedSoils

Date: 2025/04/14

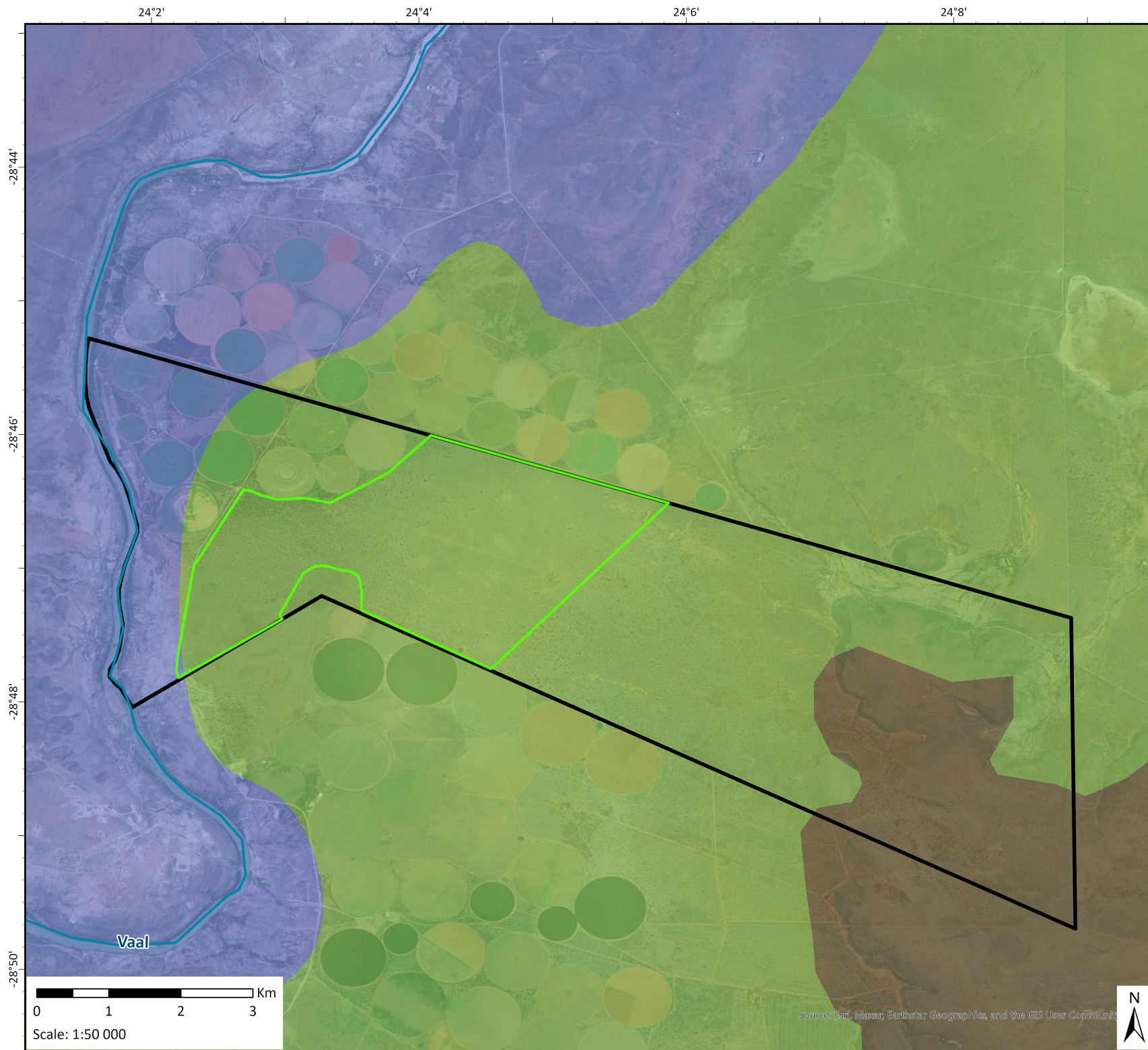
EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW





Vegetation Status Map

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

- Affected Farm Portion
- Area to be assessed
- NFEPA Rivers

Vegetation Status

	Kimberley Thornveld	Conservation Target: 16% Protection Level: Poorly Protected Ecosystem Threat Status: Least Concern
	Vaalbos Rocky Shrubland	Conservation Target: 16% Protection Level: Poorly Protected Ecosystem Threat Status: Least Concern
	Schmidtsdrif Thornveld	Conservation Target: 16% Protection Level: Poorly Protected Ecosystem Threat Status: Least Concern

North West

Northern Cape

Upington

Pixley ka Seme

Kimberley

Free State

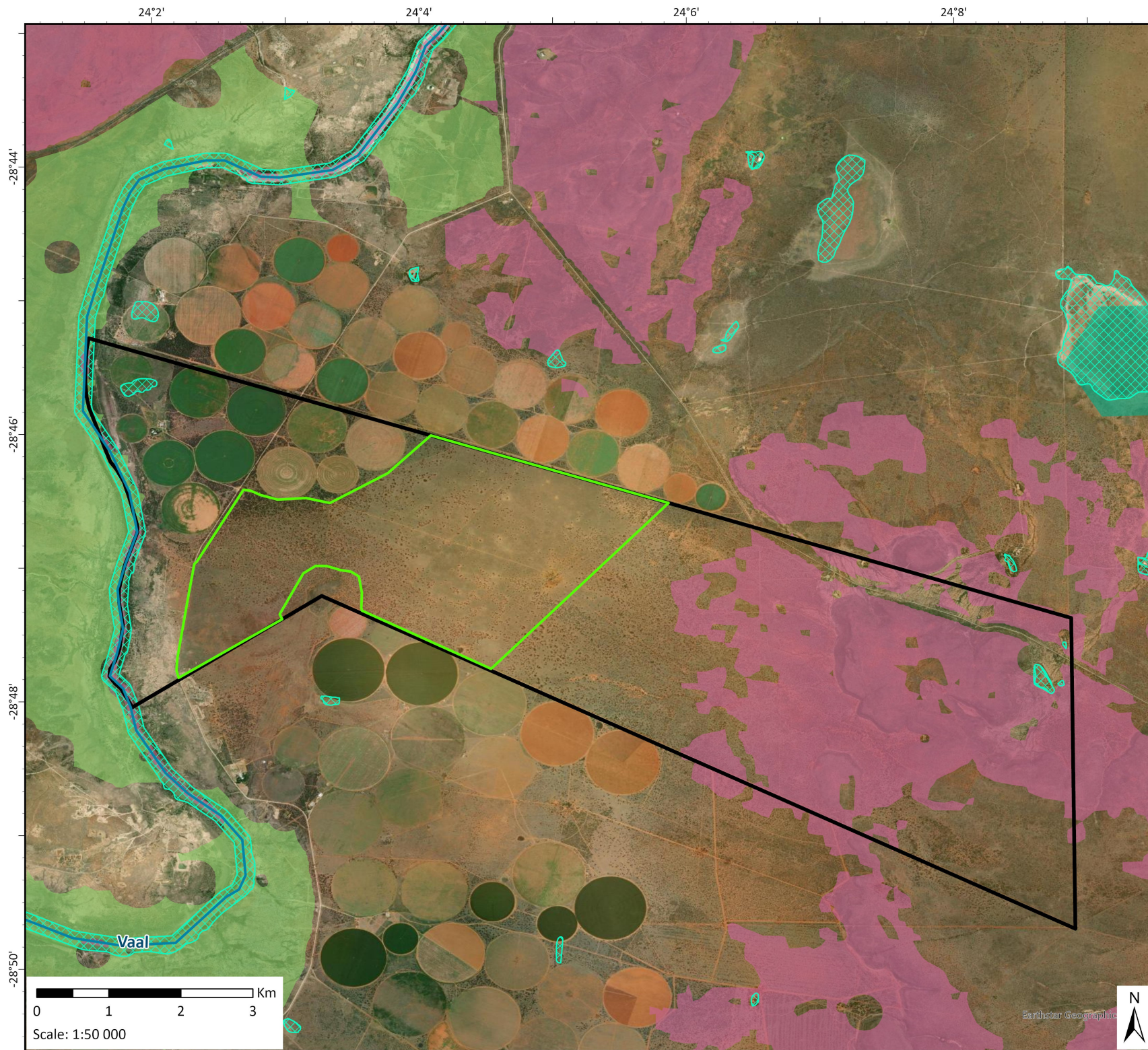
SOUTH

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

Data Sources:
CSG; ESRI; MDB; SANBI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1683_VegetationStatus

Date: 2025/04/14
EIMS Ref: 1683
Compiled: JW
Reviewed: MN
Approved: LW

Source: Esri, Microsoft, Earthstar Geographics, and the GIS User Community



Listing Notice 3 Applicability Map

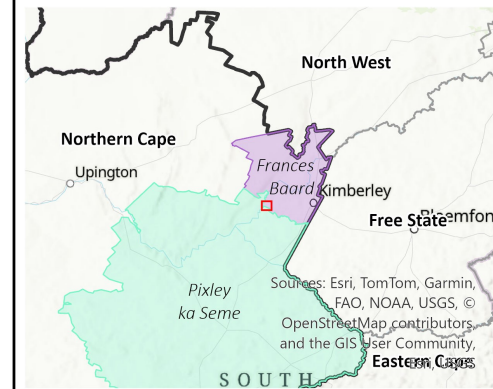
1683 Genade Boerdery Middelplaats Pivot EIA

Legend

- Affected Farm Portion
- Area to be assessed
- NFEPA Rivers
- NFEPA Wetlands

NC BSP: CBA Map 2024

- CBA1
- CBA2
- ESA



Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI; DAERL
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1683_LN3

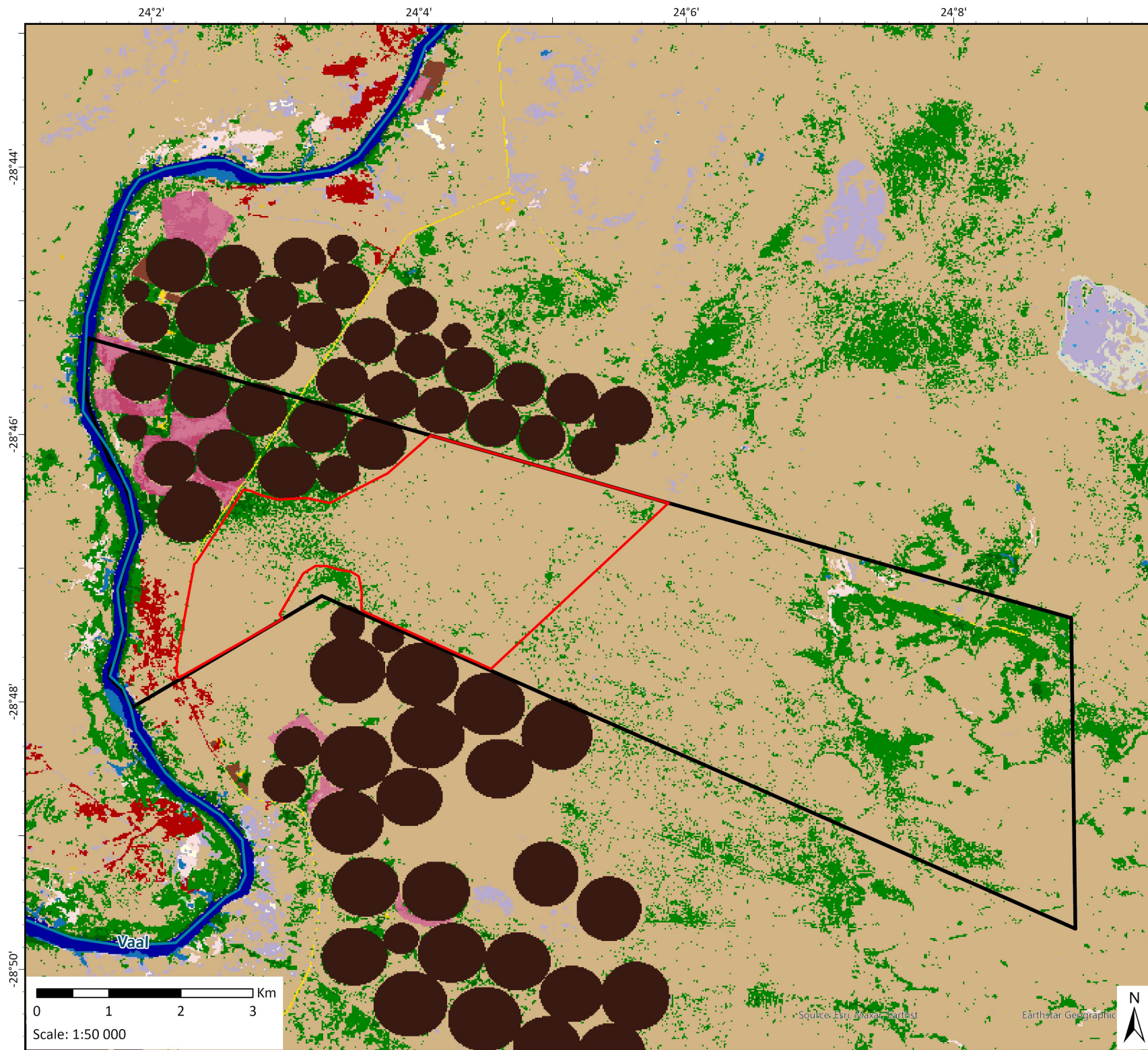
Date: 2025/04/16

EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW

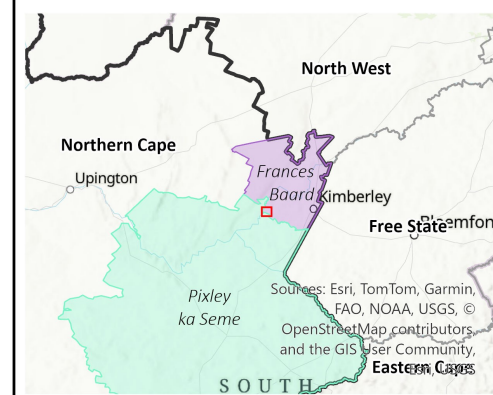


Land Cover Map

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

	Affected Farm Portion		artificial dams (including canals)		fallow land & old fields (bush)
	Area to be assessed		artificial flooded mine pits		fallow land & old fields (grass)
	NFEPA Rivers		herbaceous wetlands (currently mapped)		fallow land & old fields (bare)
	contiguous low forest & thicket		dry pans		fallow land & old fields (low shrub)
	dense forest & woodland		eroded lands		village scattered (bare & low veg / grass combo)
	open woodland		bare riverbed material		village dense (bare & low veg / grass combo)
	low shrubland (other)		other bare		roads & rails (major linear)
	sparsely wooded grassland		commercial annual crops pivot irrigated		mines: extraction pits, quarries
	natural grassland		commercial annual crops rain-fed / dryland		
	natural rivers		fallow land & old fields (trees)		
	natural pans (flooded @ observation times)				



Data Sources:

CSG; ESRI; MDB; SANBI; DFFE
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1683_LandCover

Date: 2025/04/14

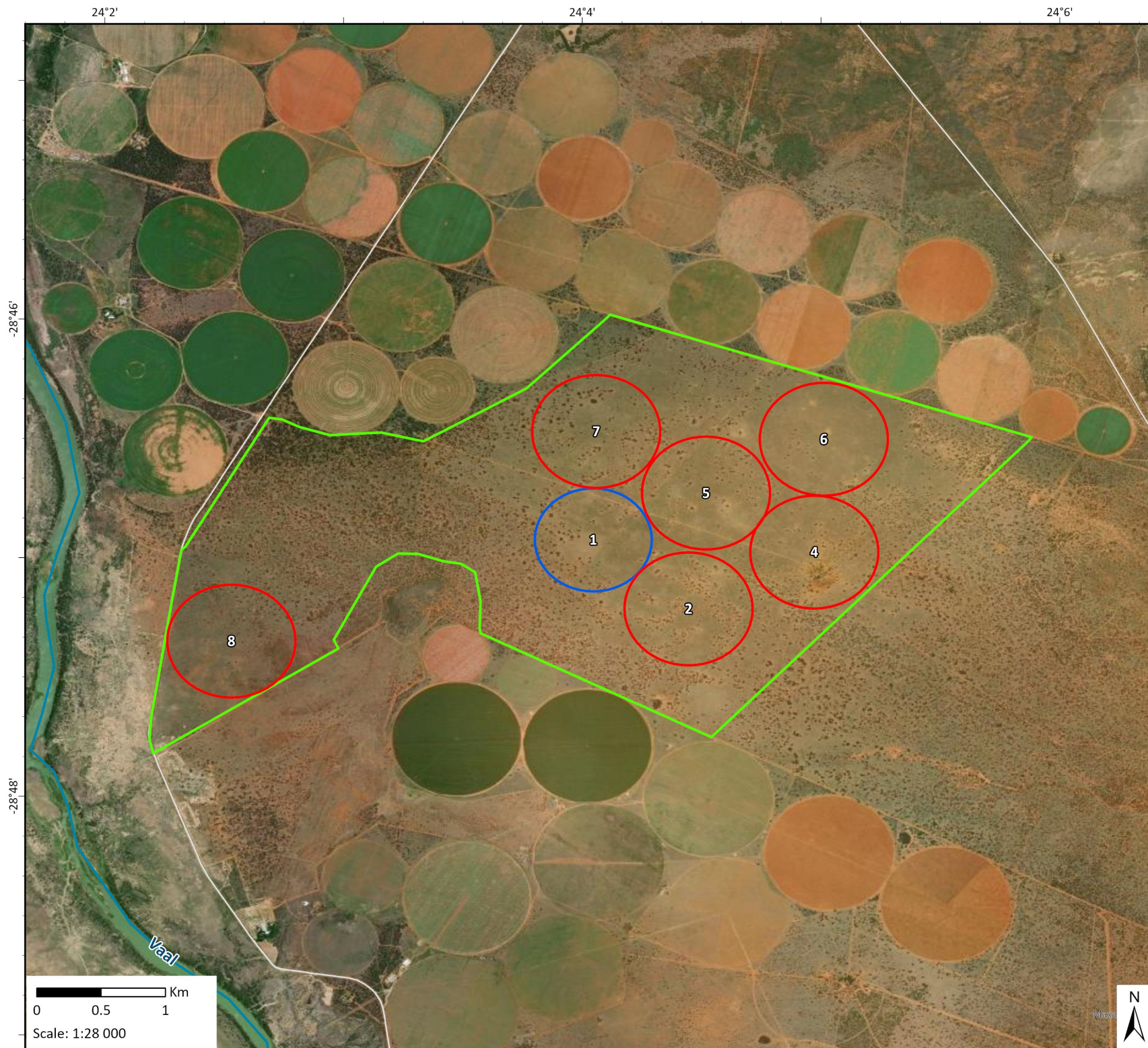
EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW





Proposed Alternative Layout Map (Removal of Pivot 3)

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

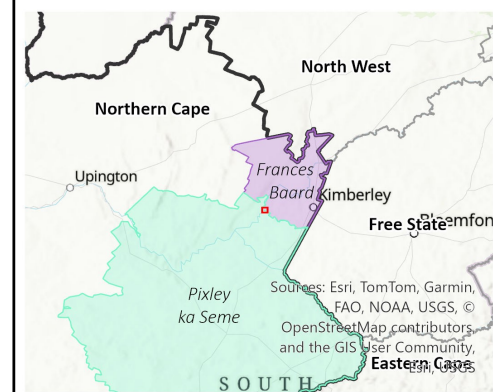
- Area to be assessed
- NFEPA Rivers

Roads

- Secondary Road

Proposed Pivots

- 50 ha
- 60 ha



Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1683_Layout

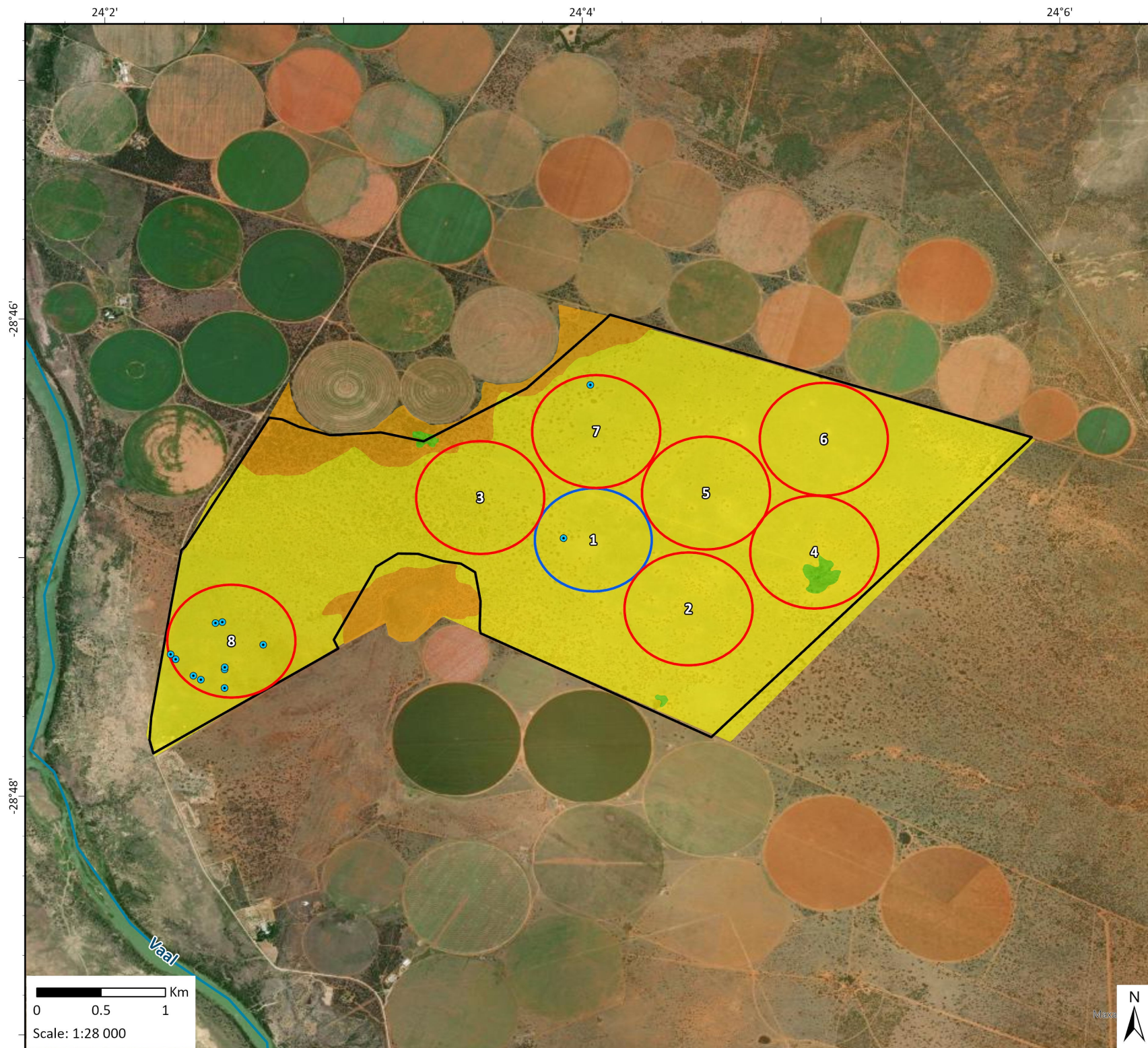
Date: 2025/09/02

EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW



Sensitivity Map (Proposed Pivot Layout)

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

 Area to be assessed

Proposed Pivots

 50 ha

 60 ha

 NFEPA Rivers

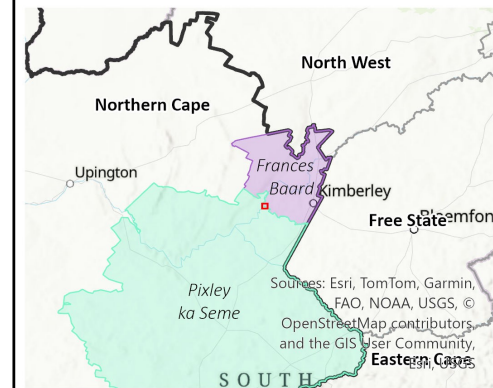
 Sites and Finds (Heritage)

Terrestrial Sensitivity

 High

 Medium

 Low



Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI

Coord System: GCS WGS 1984

Datum: WGS 1984

Units: Degree

Ref: 1683_SensitivityMap

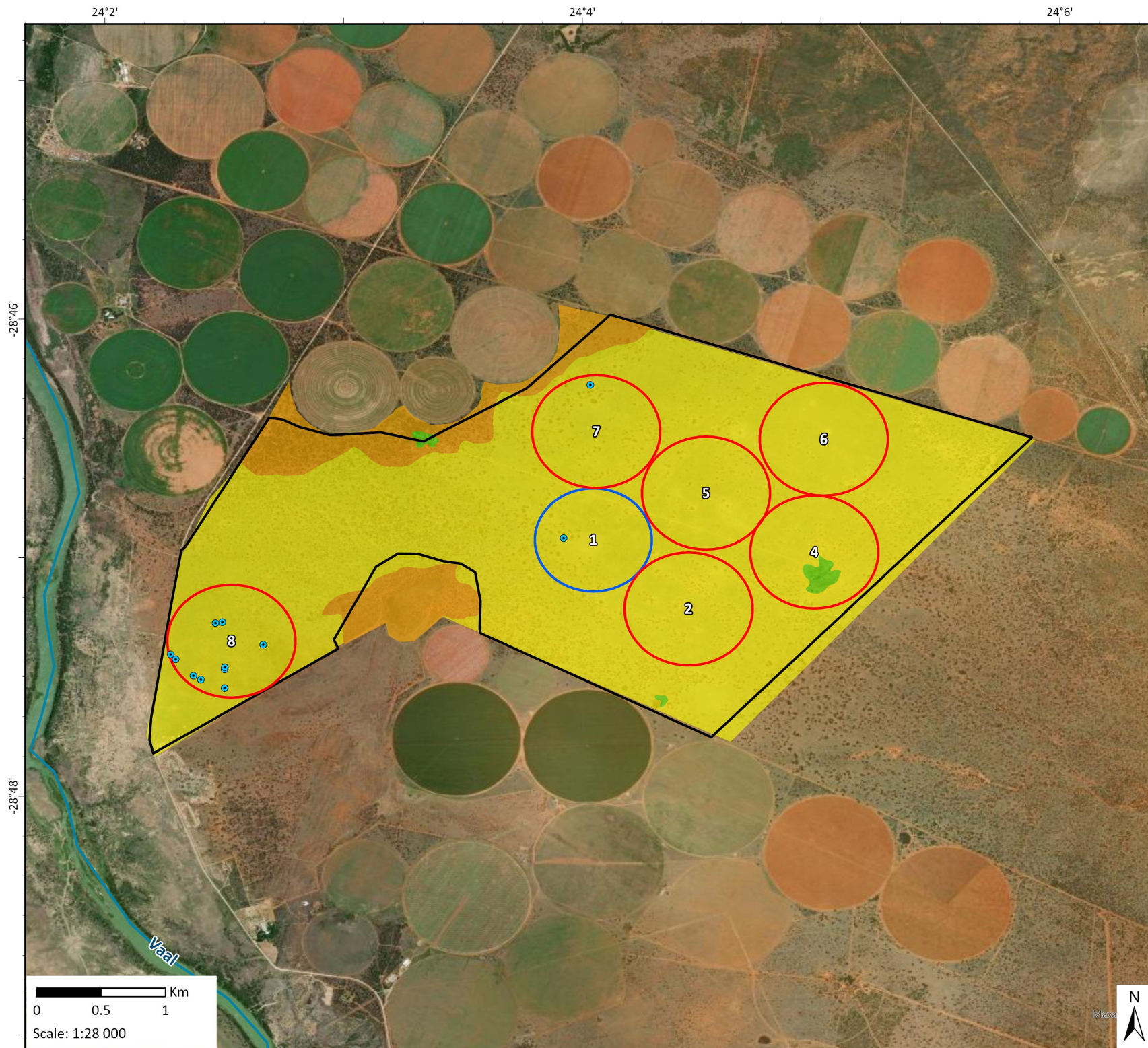
Date: 2025/09/02

EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW



Sensitivity Map - Alternative Layout (Removal of Pivot 3)

1683 Genade Boerdery Middelplaats Pivot EIA

Legend

 Area to be assessed

Proposed Pivots

 50 ha

 60 ha

 NFEPA Rivers

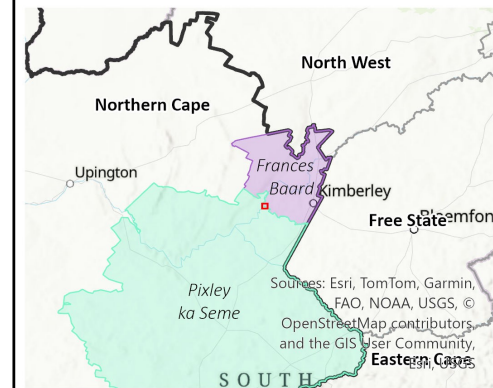
 Sites and Finds (Heritage)

Terrestrial Sensitivity

 High

 Medium

 Low



Data Sources:

CSG; ESRI; MDB; SANBI; CD:NGI

Coord System: GCS WGS 1984

Datum: WGS 1984

Units: Degree

Ref: 1683_SensitivityMap

Date: 2025/09/02

EIMS Ref: 1683

Compiled: JW

Reviewed: MN

Approved: LW