



Hyperion Solar Development 2, Northern Cape

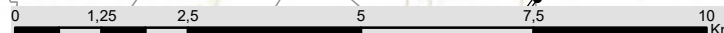
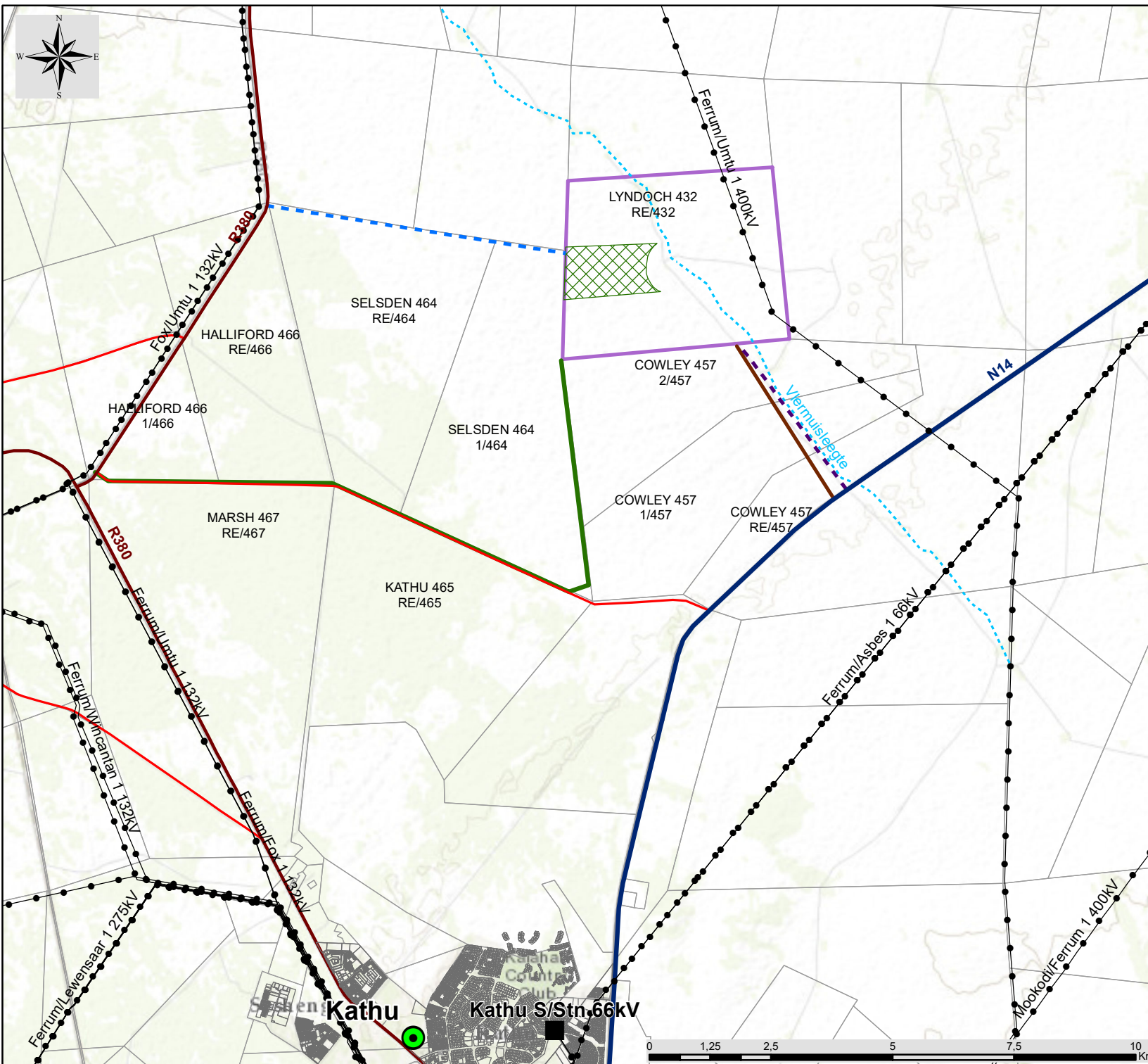
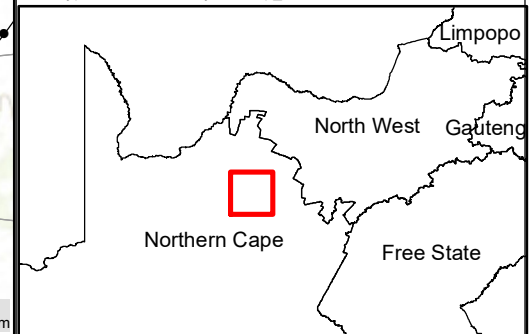
Locality Map

Legend

- Town
- Eskom Substation
- Existing Power Line
- National Route
- Regional Road
- Main Road
- Non-perennial River
- Access Road Alternative 1
- Access Road Alternative 2
- Access Road Alternative 3
- Access Road Alternative 4
- Development Area
- Project Site
- Farm Portion



Scale: 1:109 364
Projection: LO23
Ref: Hyperion PV2 Locality AR Map_04.03.19
























Hyperion Solar Development 2, Northern Cape

Layout Map

Legend

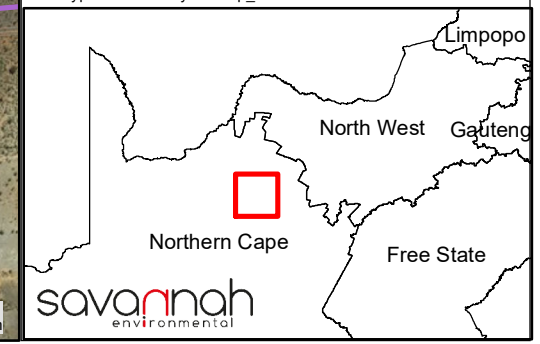
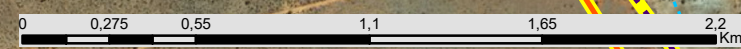
-  Eskom Substation
-  Existing Power Line
-  Non-perennial River
-  Development Area (182ha)
-  Project Site
-  Farm Portion
- Layout:**
-  Water Purification Plant
-  Perimeter Road (7.3km (l))
-  Internal Access Road (19.5km (l))
-  Access Road Alternative 1 (3.6km (l))
-  Access Road Alternative 2 (3.6km (l))
-  Access Road Alternative 3 (15.4km (l))
-  Access Road Alternative 4 (6.2km (l))
-  20m Access Road Alternative Corridor
-  Admin Building (0.05ha)
-  Energy Storage (1ha)
-  Laydown Area (1.6ha)
-  On-site Substation (1ha)
-  Solar Field (152ha)

LYNDOCH 432
RE/432

Ferum Unit 1 400KV

Vlerkuispeete

Scale: 1:24 000
Projection: LO23
Ref: Hyperion PV2 Layout Map_04.03.19



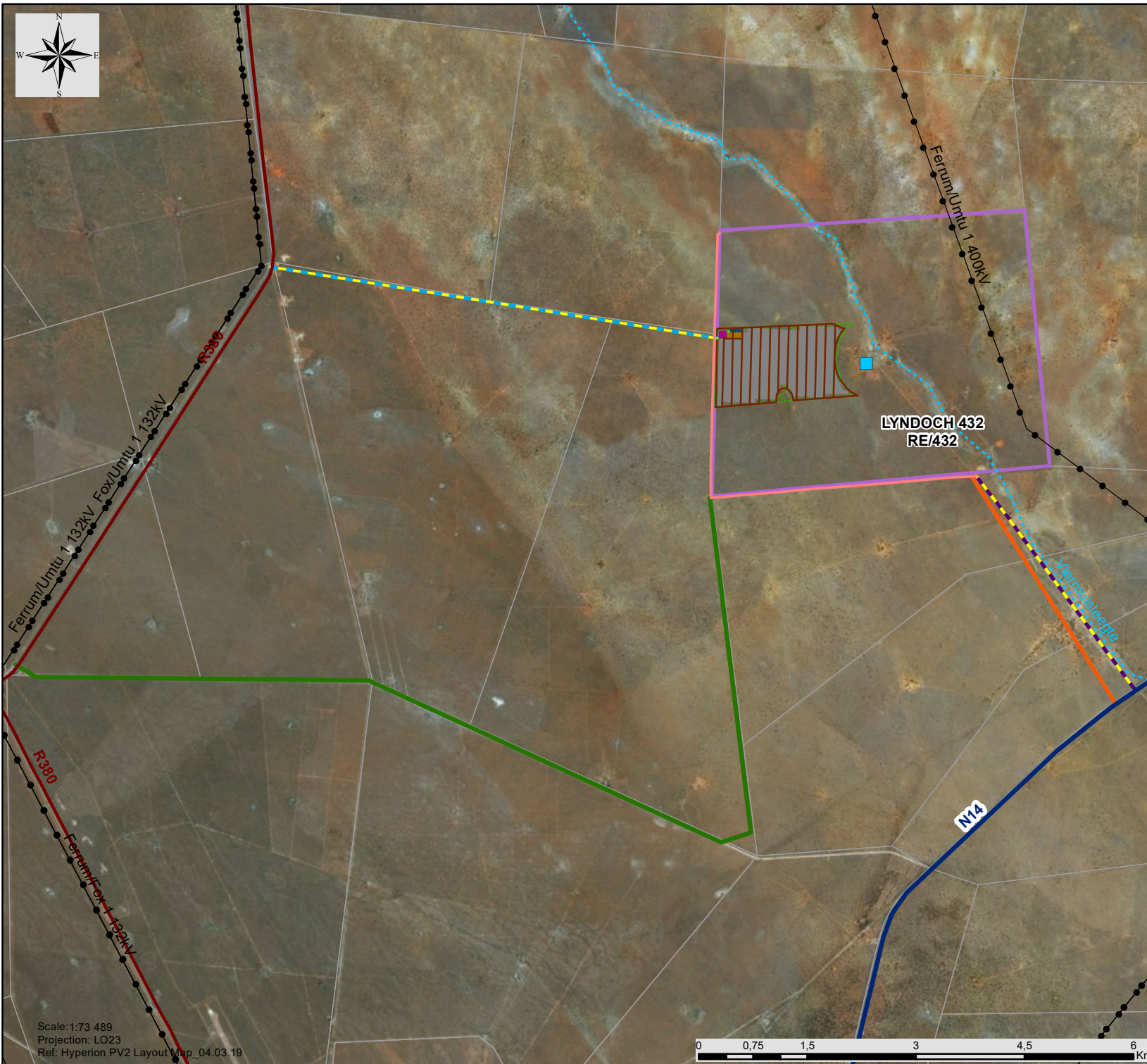


Hyperion Solar Development 2, Northern Cape

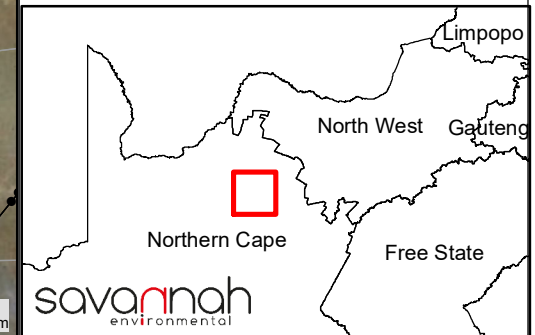
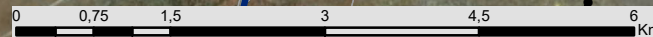
Layout Map (zoomed-out)

Legend

- Eskom Substation
 - Existing Power Line
 - National Route
 - Regional Road
 - Non-perennial River
 - ▨ Development Area (182ha)
 - Project Site
 - Farm Portion
- Layout:**
- Water Purification Plant
 - Perimeter Road (7.3km (l))
 - Internal Access Road (19.5km (l))
 - Access Road Alternative 1 (3.6km (l))
 - Access Road Alternative 2 (3.6km (l))
 - Access Road Alternative 3 (15.4km (l))
 - Access Road Alternative 4 (6.2km (l))
 - 20m Access Road Alternative Corridor
 - Admin Building (0.05ha)
 - Energy Storage (1ha)
 - Laydown Area (1.6ha)
 - On-site Substation (1ha)
 - Solar Field (152ha)



Scale: 1:73 489
Projection: LO23
Ref: Hyperion PV2 Layout Map_04.03.19





Hyperion Solar Development 2, Northern Cape

Environmental Sensitivity Map

LYNDOCH 432
RE/432

Viermuisleegte

Ferrum Unit 1 400KV

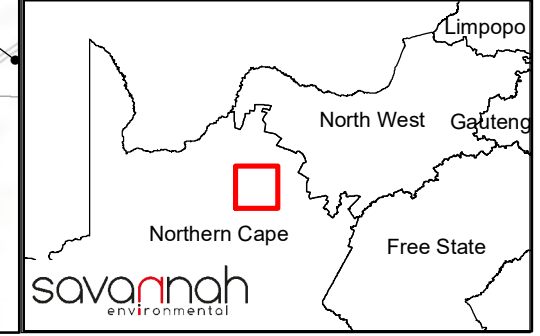
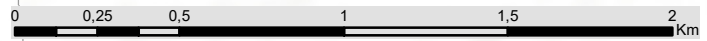
Legend

- Eskom Substation
- Existing Power Line
- ⋯ Non-perennial River
- 32m NEMA Zone of Regulation
- ⋯ 100m GN509 Zone of Regulation
- ⋯ 500m GN509 Zone of Regulation
- Project Site
- Farm Portion

Environmental Sensitivities:

- ◆ Heritage Site
- ⋯ Very High (Heritage)
- Very High (Watercourses)
- Very High (Ecology, Avifauna & Watercourses)
- ⊠ High (Avifauna)
- High (Ecology)
- ▨ Medium (Avifauna)
- Medium (Ecology)
- Low (Ecology)

Scale: 1:23 006
Projection: LO23
Ref: Hyperion PV2 Sensitivity Map_23.03.19





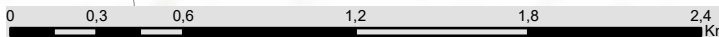
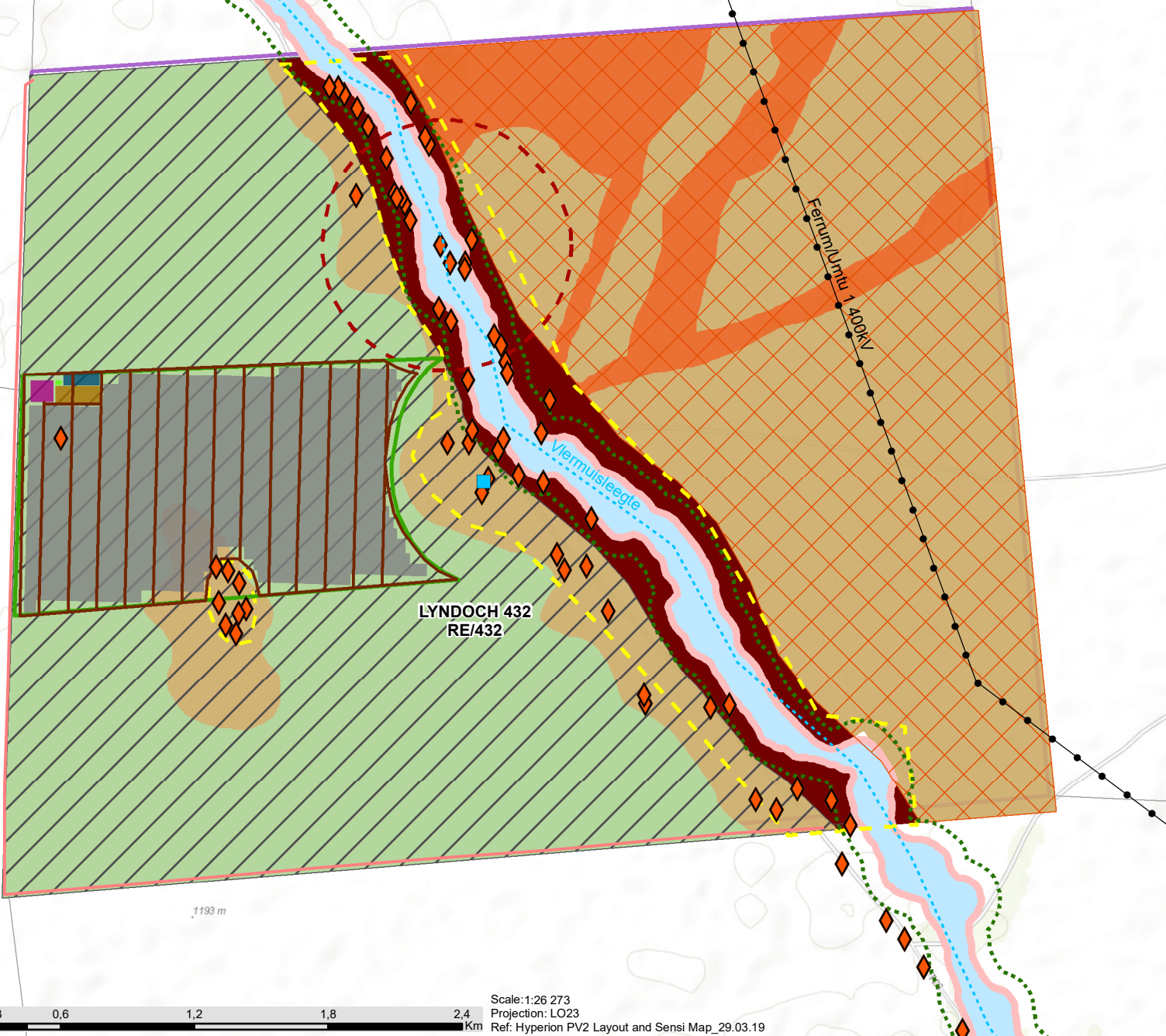
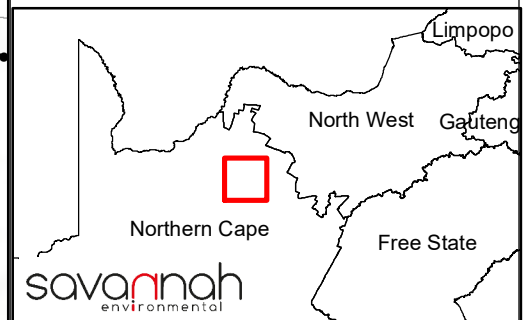
1185 m

Hyperion Solar Development 2, Northern Cape

Environmental Sensitivity and Layout Map

Legend

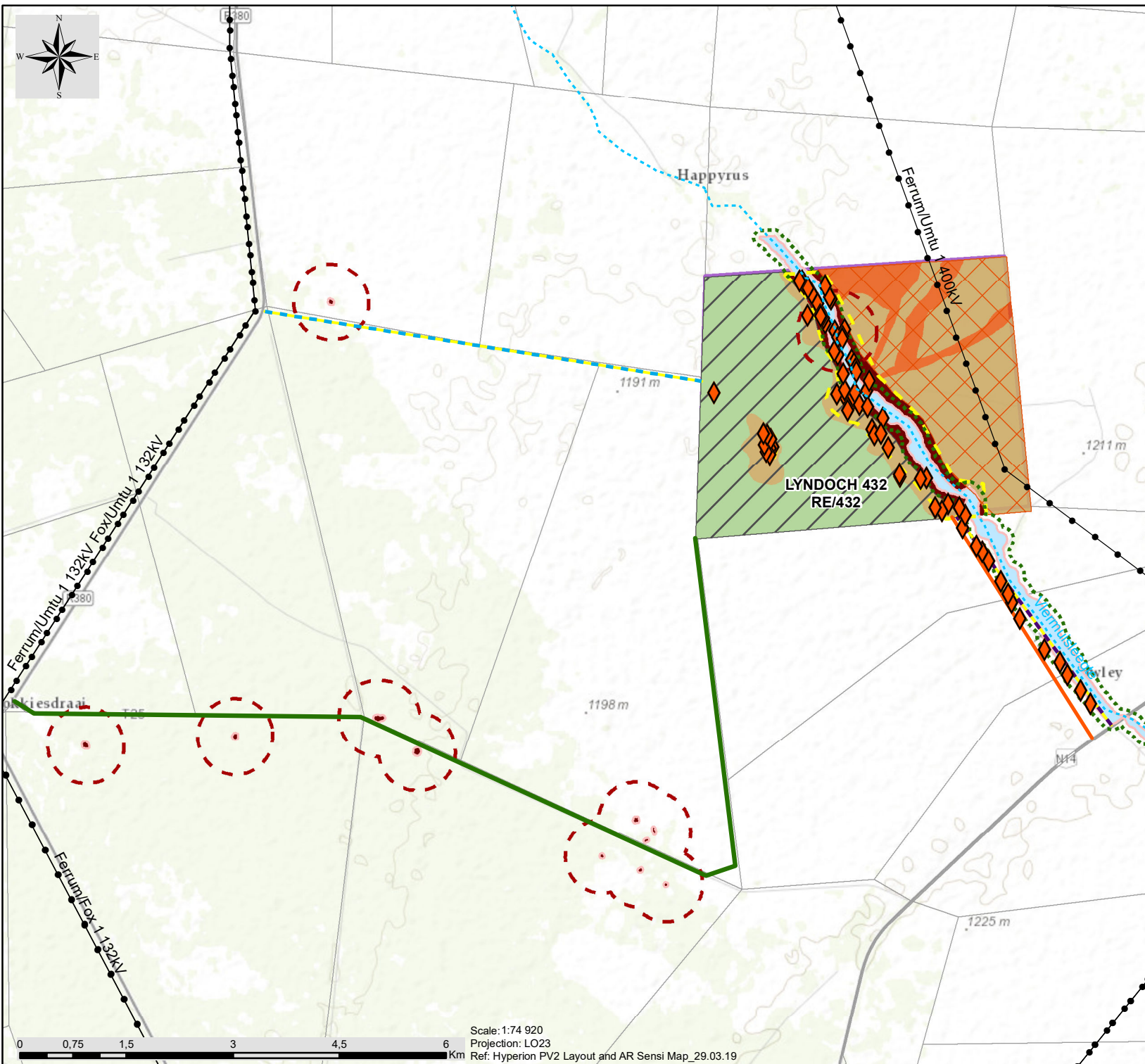
- Eskom Substation
 - Existing Power Line
 - Non-perennial River
 - Development Area (182ha)
 - 100m GN509 Zone of Regulation
 - 500m Depression Wetland Buffer
 - 32m NEMA Zone of Regulation
 - Project Site
 - Farm Portion
- Layout:**
- Water Purification Plant
 - Perimeter Road (7.3km (l))
 - Internal Access Road (19.5km (l))
 - Admin Building (0.05ha)
 - Energy Storage (1ha)
 - Laydown Area (1.6ha)
 - On-site Substation (1ha)
 - Solar Field (152ha)
- Environmental Sensitivities:**
- Heritage Site
 - Very High (Heritage)
 - Medium (Avifauna)
 - High (Avifauna)
 - Very High (Ecology, Avifauna, Watercourses)
 - High (Ecology)
 - Medium (Ecology)
 - Low (Ecology)



Scale: 1:26 273
 Projection: LO23
 Ref: Hyperion PV2 Layout and Sensi Map_29.03.19

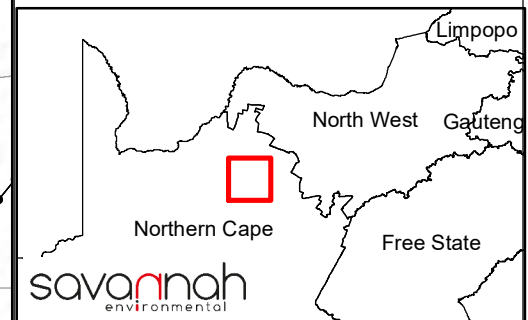
Hyperion Solar Development 2, Northern Cape

Environmental Sensitivity and Access Road Layout Map



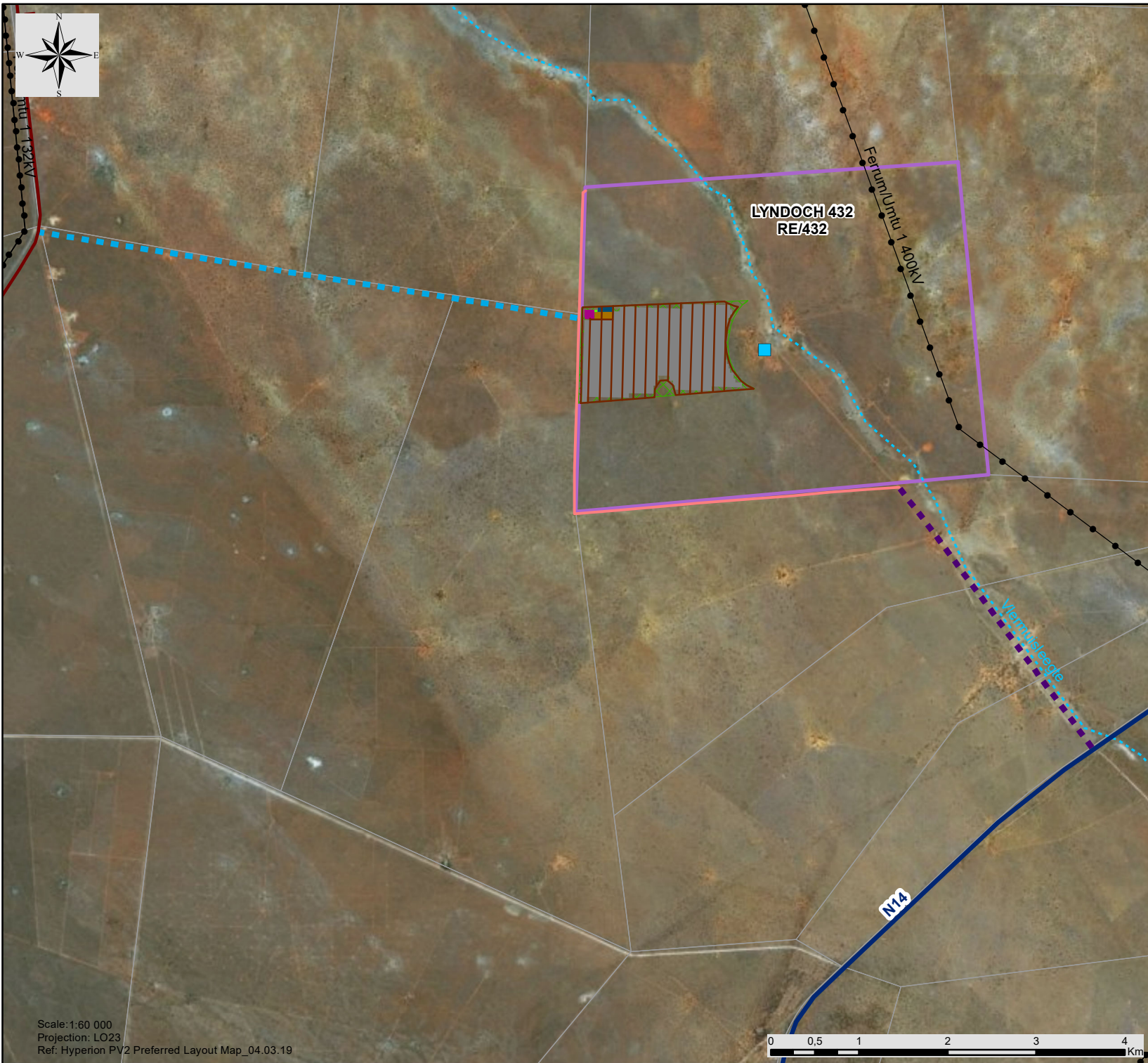
Legend

- Eskom Substation
 - Existing Power Line
 - Non-perennial River
 - 100m GN509 Zone of Regulation
 - 500m Depression Wetland Buffer
 - 32m NEMA Zone of Regulation
 - Project Site
 - Farm Portion
- Layout:**
- Access Road Alternative 1 (3.6km (l))
 - Access Road Alternative 2 (3.6km (l))
 - Access Road Alternative 3 (15.4km (l))
 - Access Road Alternative 4 (6.2km (l))
 - 20m Access Road Alternative Corridor
- Environmental Sensitivities:**
- Heritage Site
 - Very High (Heritage)
 - Medium (Avifauna)
 - High (Avifauna)
 - Very High (Ecology, Avifauna, Watercourses)
 - High (Ecology)
 - Medium (Ecology)
 - Low (Ecology)



Hyperion Solar Development 2, Northern Cape

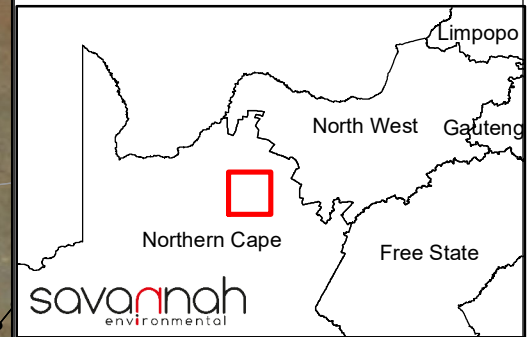
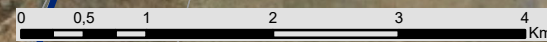
Preferred Layout Map



Legend

- Eskom Substation
 - Existing Power Line
 - National Route
 - Regional Road
 - Non-perennial River
 - Development Area (182ha)
 - Project Site
 - Farm Portion
- Layout:**
- Water Purification Plant
 - Perimeter Road (7.3km (l))
 - Internal Access Road (19.5km (l))
 - Access Road Alternative 1 (Preferred)
 - Access Road Alternative 4 (Second Preferred)
 - Admin Building (0.05ha)
 - Energy Storage (1ha)
 - Laydown Area (1.6ha)
 - On-site Substation (1ha)
 - Solar Field (152ha)

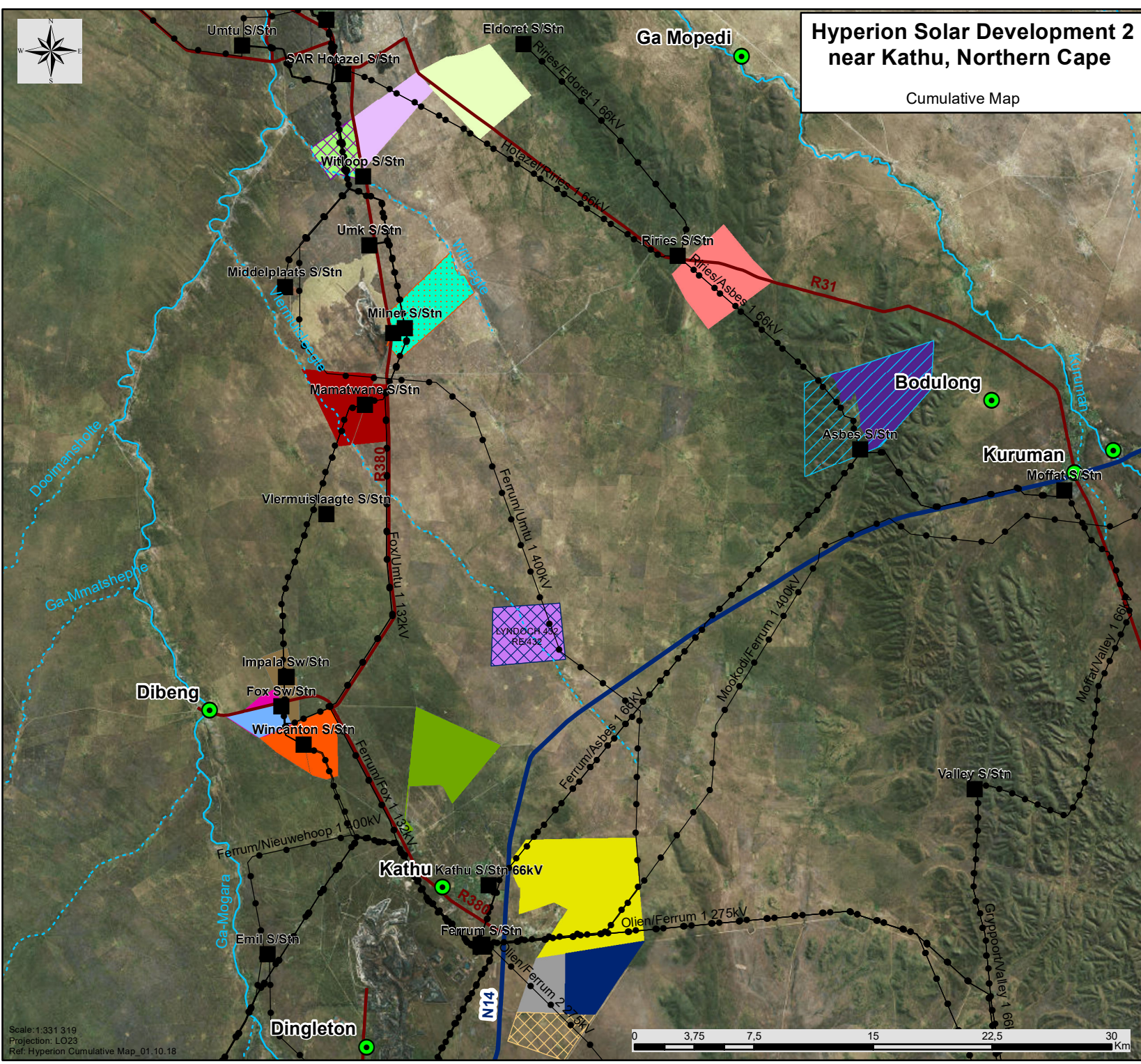
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 Projection: LO23
 Ref: Hyperion PV2 Preferred Layout Map_04.03.19





Hyperion Solar Development 2 near Kathu, Northern Cape

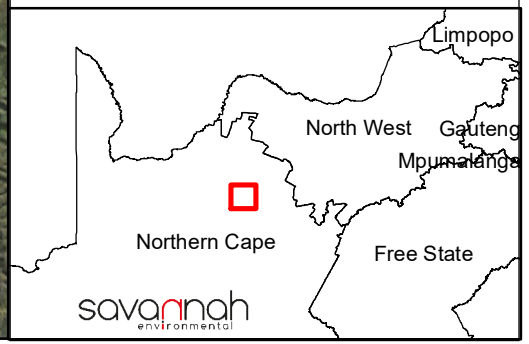
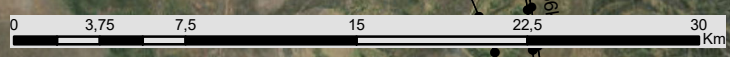
Cumulative Map



Legend

- Town
 - Eskom Substation
 - Existing Power Line
 - National Route
 - Regional Road
 - Perennial River
 - Non-perennial River
 - Project Site
- Other known solar energy facilities:**
(illustration based on affected properties and not project site)
- Hyperion PV1, 3 & 4 (3 x PV)
 - Kathu Solar Energy Facility (2 x PV) (1 x PB1)
 - Sishen Solar Energy Facility (PB2)
 - Kalahari Solar Power Project (3 x CSP) (1 x PB3.5)
 - San Solar Energy Facility
 - Kagiso Solar Power Plant
 - Tshepo Solar Power Plant
 - Perth-Kuruman Solar Farm
 - Perth-Hotazel Solar Farm
 - 19MW Adams Solar Power Generation Plant
 - 75MW Adams PV2 Solar Energy Facility (PB3)
 - Whitebank Solar Plant
 - 10 MW Roma Energy Mount Roper Solar Plant
 - Boitshoko Solar Power Plant
 - AEP Kathu Solar PV Energy Facility
 - Bestwood Solar Farm
 - Shirley Solar Park
 - AEP Legoko PV Solar Facility
 - AEP Mogobe PV Solar Energy Facility
 - 5MW Roma Energy Mount Ropers Solar Plant

Scale: 1:331 319
 Projection: LO23
 Ref: Hyperion Cumulative Map_01.10.18



Appendix N: Site Coordinates

Corner point coordinates (Project Site):

Coordinates		
	Latitude (S)	Longitude (E)
North-eastern extent	27°32'12.31" S	23°06'23.35" E
North-western extent	27°34'06.94" S	23°06'36.08" E
South-eastern extent	27°34'20.63" S	23°03'46.03" E
South-western extent	27°32'21.53" S	23°03'49.88" E
Centre Point	27° 32'43.22" S	23°04'19.01" E

Access Road Alternative 1 coordinates (preferred Alternative):

Coordinates		
	Latitude (S)	Longitude (E)
Start (intersection to the N14)	27°35'47.55" S	23°07'19.27" E
Middle	27°34'59.28" S	23°06'39.12" E
End (perimeter road)	27°34'11.15" S	23°05'58.79" E

Access Road Alternative 2 coordinates:

Coordinates		
	Latitude (S)	Longitude (E)
Start (intersection to the N14)	27°35'53.47" S	23°07'9.44" E
Middle	27°35'02.76" S	23°06'33.3212" E
End (perimeter road)	27°34'11.30" S	23°05'56.52" E

Access Road Alternative 3 coordinates:

Coordinates		
	Latitude (S)	Longitude (E)
Start (intersection to the R380)	27°35'35.97" S	22°57'54.81" E
Middle	27°36'20.80" S	23°02'24.75" E
End (perimeter road)	27°34'20.91" S	23°03'44.91" E

Access Road Alternative 4 coordinates (second preferred Alternative):

Coordinates		
	Latitude (S)	Longitude (E)
Start (intersection to the R380)	27°32'37.95" S	23°00'03.34" E
Middle	27°32'54.08" S	23°01'57.02" E
End (perimeter road)	27°33'10.05" S	23°03'49.03" E