Basic Assessment for the Proposed Development of three 175 MW Solar Photovoltaic Facilities and associated Infrastructure (i.e. Grootfontein PV 1, Grootfontein PV 2, and Grootfontein PV 3), near Touws River, Western Cape

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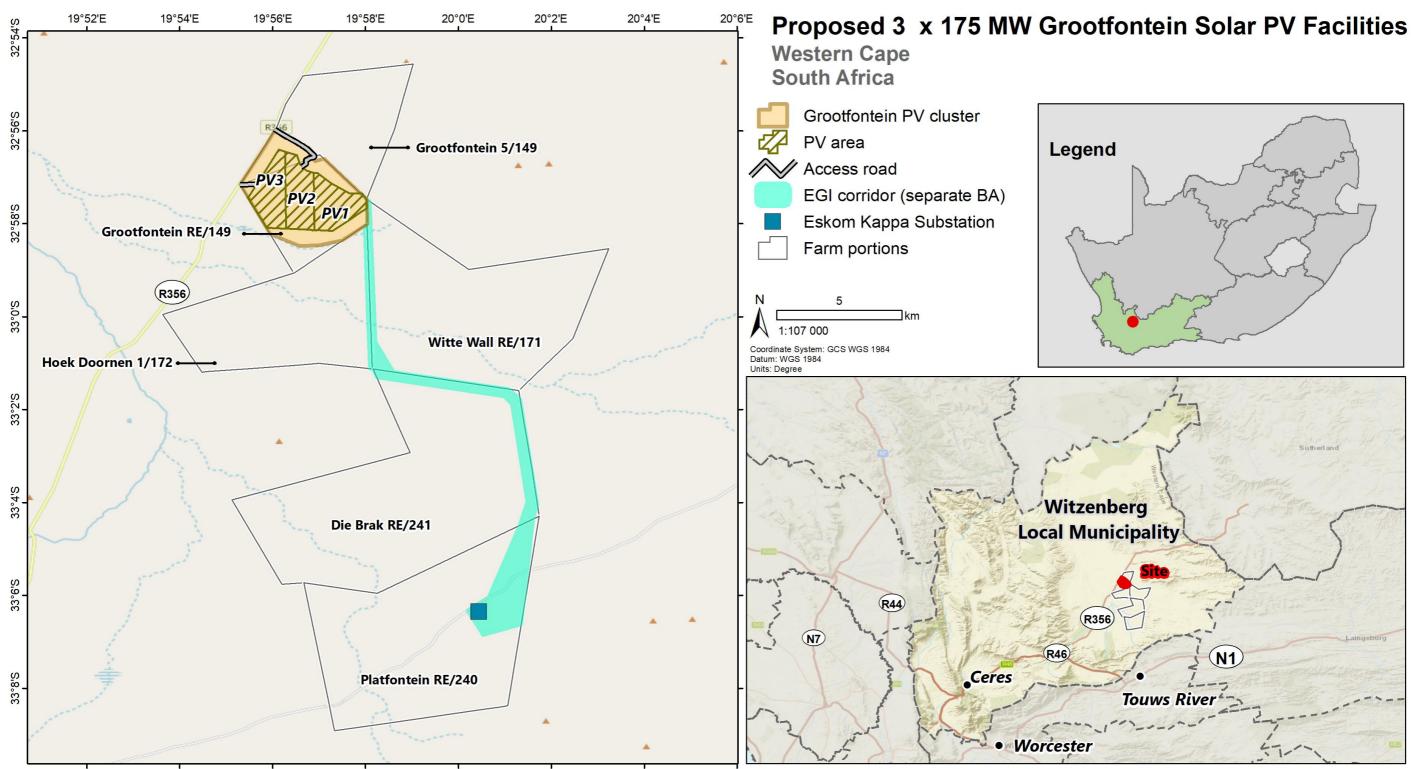
Basic Assessment for the Proposed Development of three 175 MW Solar Photovoltaic Facilities and associated Infrastructure (i.e. Grootfontein PV 1, Grootfontein PV 2, and Grootfontein PV 3), near Touws River, Western Cape

APPENDIX

Maps

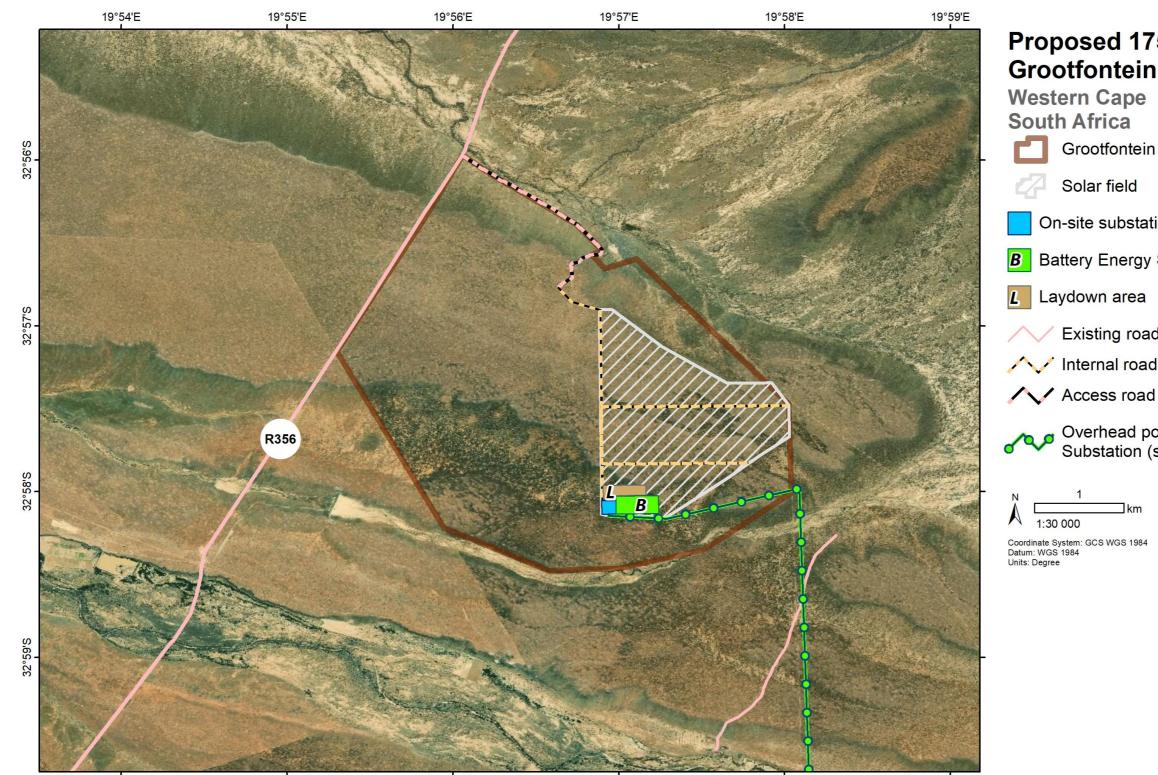
DRAFT BASIC ASSESSMENT REPORT: Basic Assessment for the Proposed Development of three 175 MW Solar Photovoltaic Facilities and associated Infrastructure (i.e. Grootfontein PV 1, Grootfontein PV 2, and Grootfontein PV 3), near Touws River, Western Cape

Appendix A.1: Locality Map – Grootfontein PV 1, Grootfontein PV 2 and Grootfontein PV 3



Service Layer Credits: © OpenStreetMap (and) contributors, CC-BY-SA Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c)

Appendix A.2: Layout Map – Grootfontein PV 1



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Proposed 175 MW **Grootfontein PV 1 Facility**

Grootfontein PV cluster site

Solar field

On-site substation

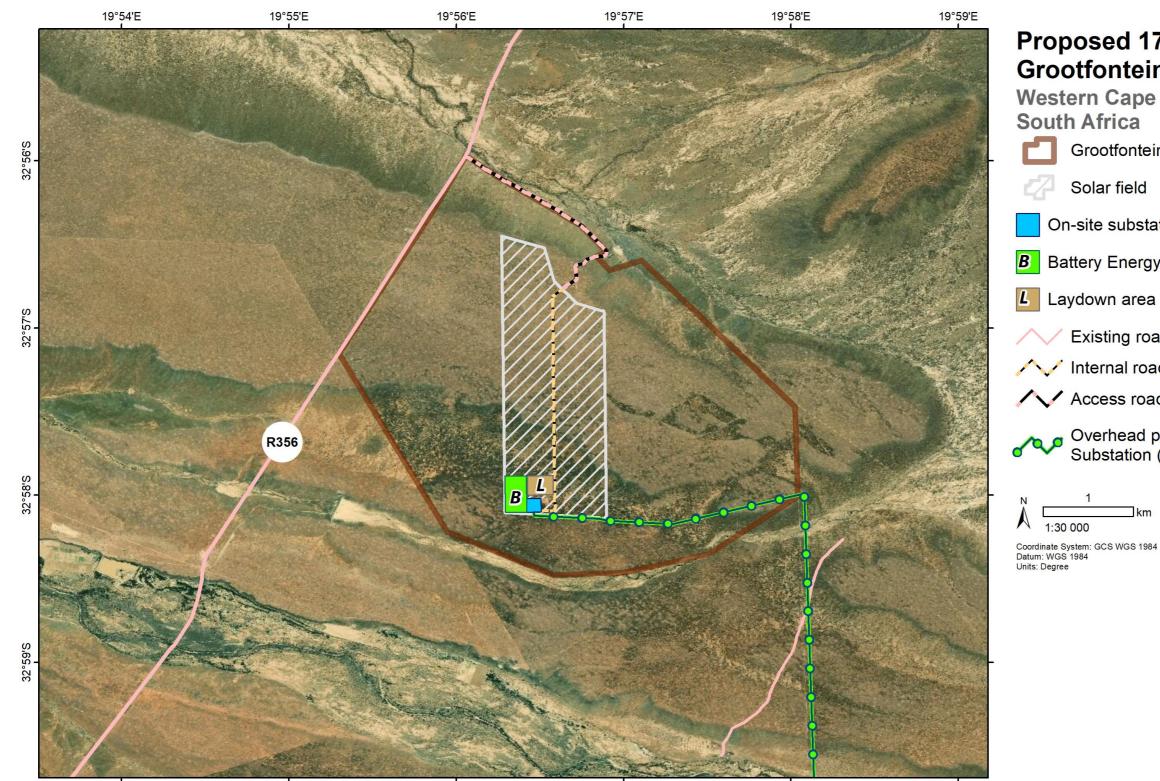
Battery Energy Storage System

Existing road

/// Internal road

Overhead powerline to Eskom Kappa Substation (separate BA process)

Appendix A.3: Layout Map – Grootfontein PV 2



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS Use Community

Proposed 175 MW **Grootfontein PV 2 Facility**

Grootfontein PV cluster site

Solar field

On-site substation

B Battery Energy Storage System

Laydown area

Existing road

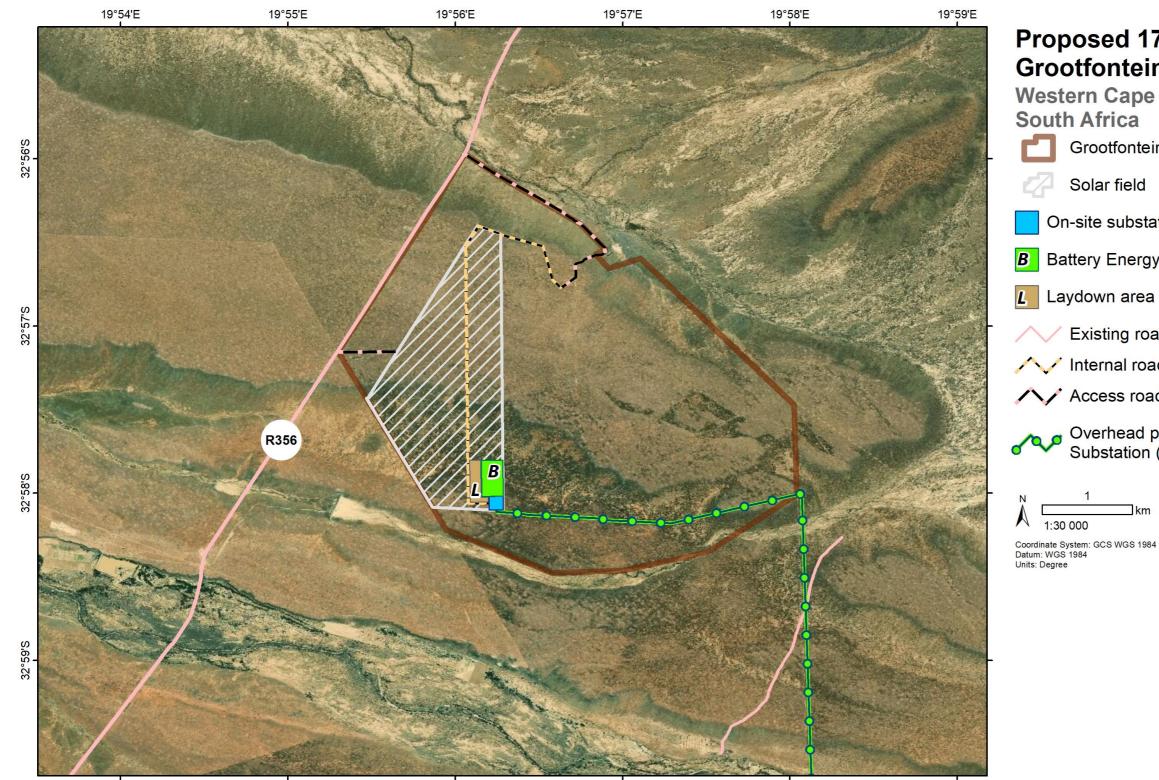
/// Internal road

Access road

Overhead powerline to Eskom Kappa Substation (separate BA process)

km

Appendix A.4: Layout Map – Grootfontein PV 3



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS Use Community

Proposed 175 MW **Grootfontein PV 3 Facility**

Western Cape Grootfontein PV cluster site

Solar field

On-site substation

Battery Energy Storage System

Laydown area

Existing road

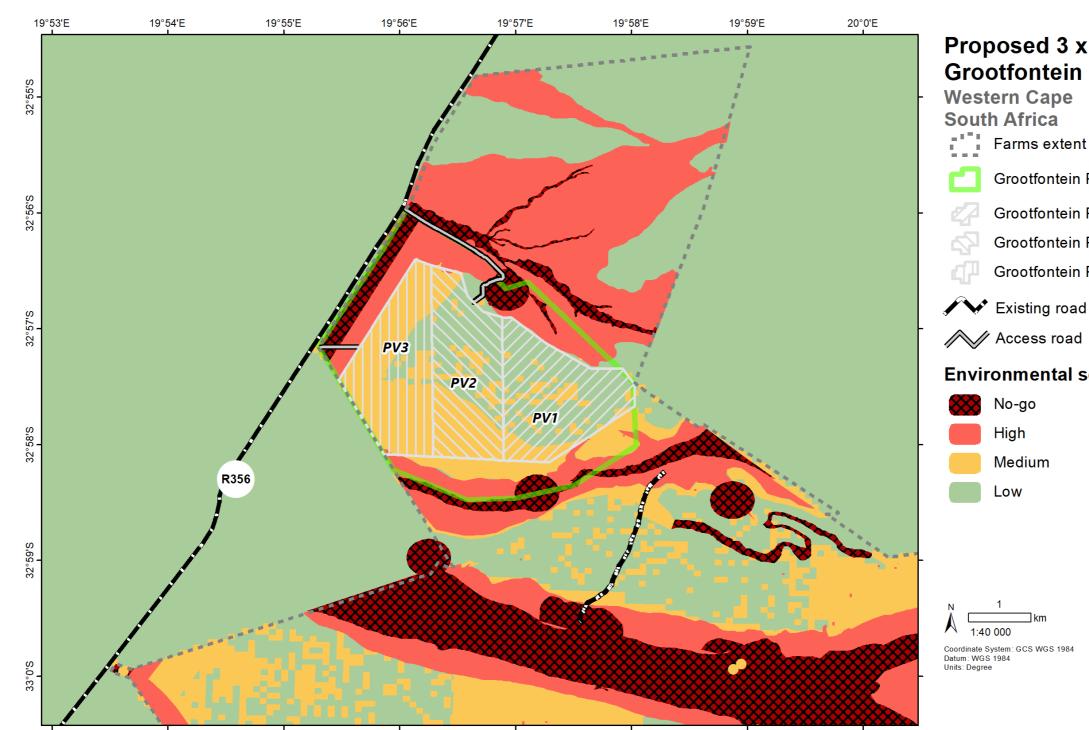
/// Internal road

Access road

Overhead powerline to Eskom Kappa Substation (separate BA process)

km

DRAFT BASIC ASSESSMENT REPORT: Basic Assessment for the Proposed Development of three 175 MW Solar Photovoltaic Facilities and associated Infrastructure (i.e. Grootfontein PV 1, Grootfontein PV 2, and Grootfontein PV 3), near Touws River, Western Cape



Appendix A.5: Sensitivity Map

Proposed 3 x 175 MW **Grootfontein PV Facilities**

Farms extent

Grootfontein PV cluster site

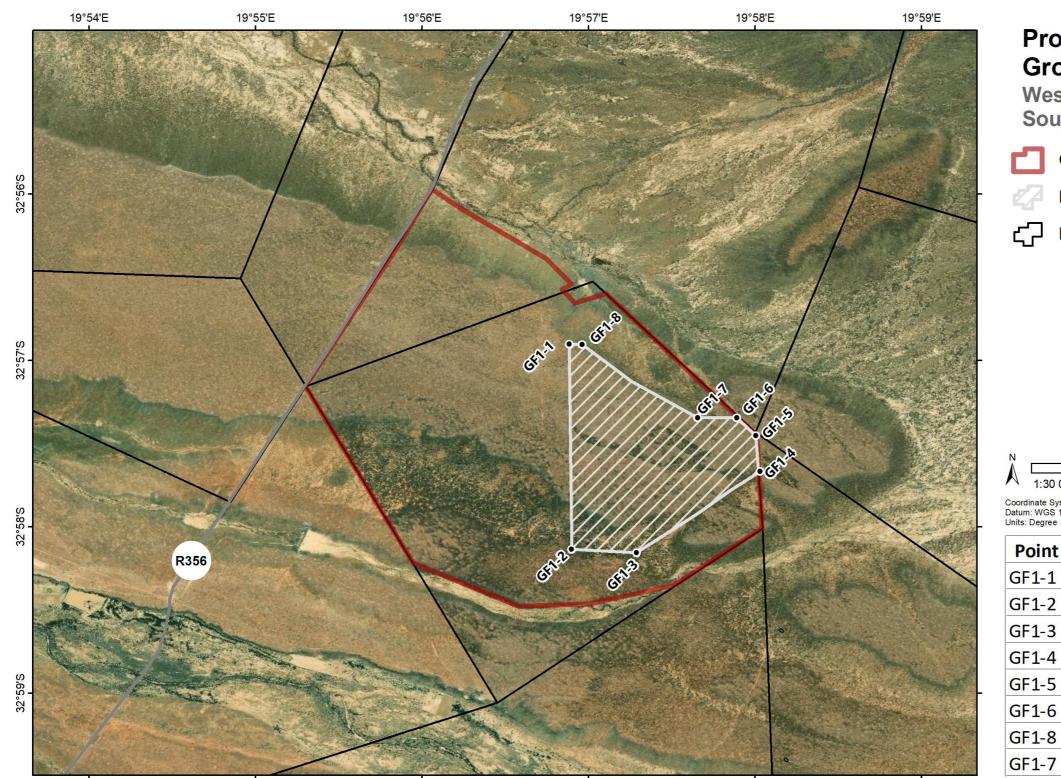
Grootfontein PV 1

Grootfontein PV 2

Grootfontein PV 3

Environmental sensitivity

Appendix A.6: Approximate Project Co-ordinate Map – Grootfontein PV 1



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Proposed 175 MW **Grootfontein PV 1 Facility**

Western Cape **South Africa**

Grootfontein PV cluster site

PV

Farm portions

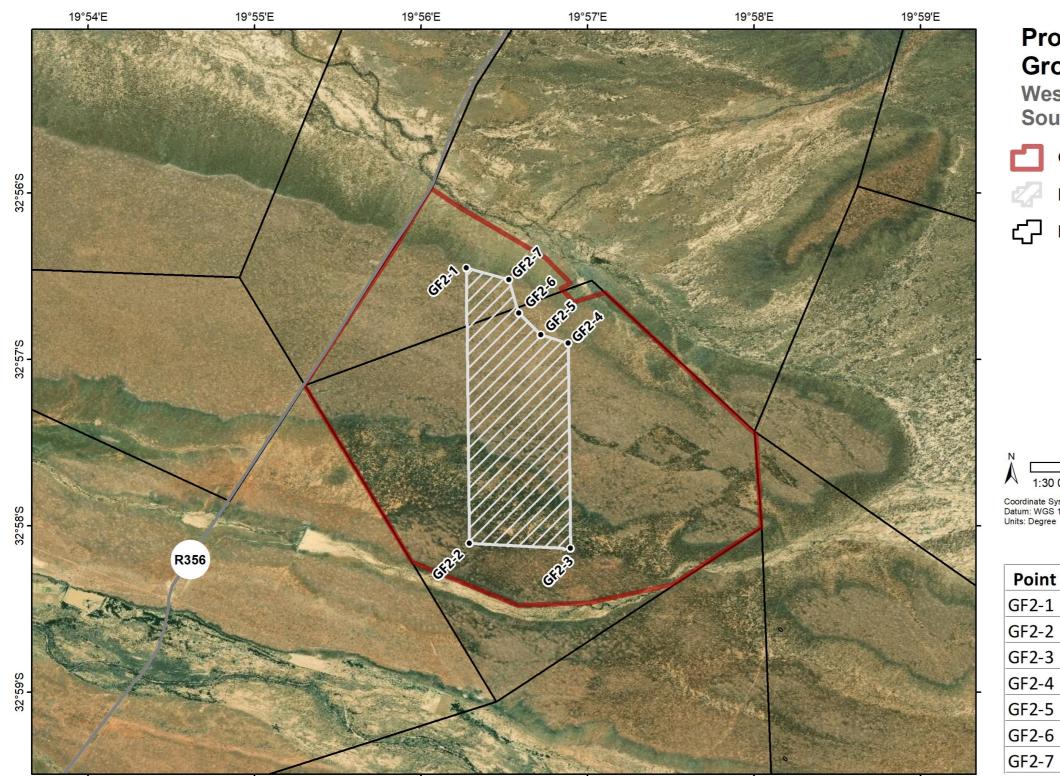
km

1:30 000

Coordinate System: GCS WGS 1984 Datum: WGS 1984 Units: Degree

| t ID | Lat (y) | Long (x) |
|------|-----------|----------|
| | -32.9484 | 19.9480 |
| | -32.9689 | 19.9483 |
| | -32.9692 | 19.9548 |
| | -32.9611 | 19.9671 |
| | -32.95753 | 19.96674 |
| | -32.95574 | 19.96485 |
| | -32.9484 | 19.9494 |
| | -32.9558 | 19.9609 |

Appendix A.7: Approximate Project Co-ordinate Map – Grootfontein PV 2



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Proposed 175 MW Grootfontein PV 2 Facility

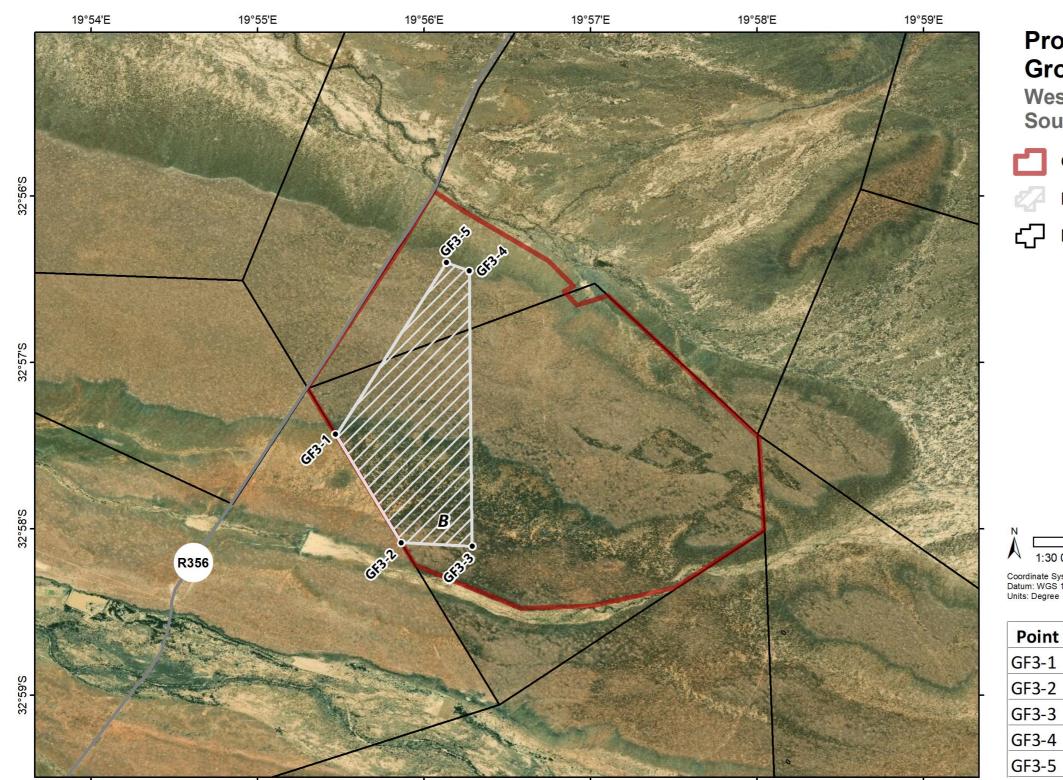
Western Cape South Africa

- Grootfontein PV cluster site
- **PV** Area
- Farm portions

N 1 km 1:30 000 Coordinate System: GCS WGS 1984 Datum: WGS 1984 Units: Degree

| : ID | D Lat (y) Long (| |
|------|------------------|---------|
| - | -32.9408 | 19.9379 |
| | -32.9684 | 19.9382 |
| | -32.9689 | 19.9483 |
| | -32.9484 | 19.9480 |
| | -32.9475 | 19.9453 |
| | -32.9454 | 19.9431 |
| | -32.9420 | 19.9421 |

Appendix A.8: Approximate Project Co-ordinate Map – Grootfontein PV 3



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

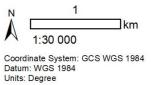
Proposed 175 MW Grootfontein PV 3 Facility

Western Cape South Africa

Grootfontein PV cluster site

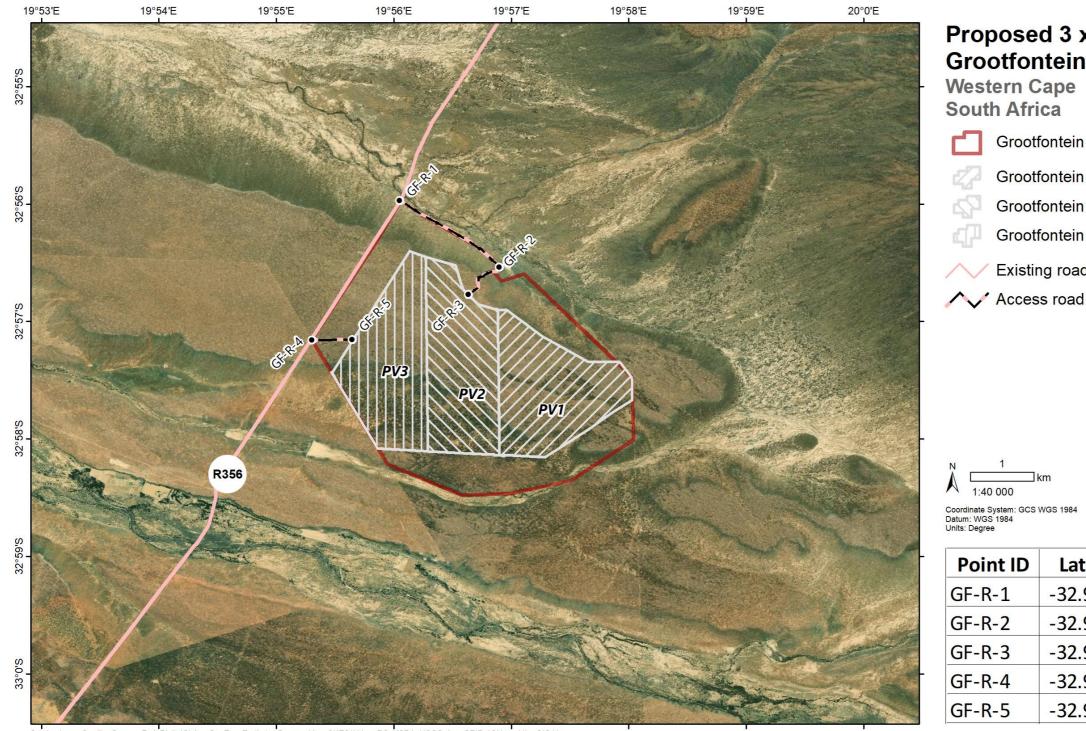
PV Area

Farm portions



| ID | Lat (y) | Long (x) |
|----|----------|----------|
| | -32.9572 | 19.9245 |
| | -32.9681 | 19.9311 |
| | -32.9684 | 19.9382 |
| | -32.9408 | 19.9379 |
| | -32.9400 | 19.9356 |

Appendix A.9: Approximate Project Co-ordinate Map – Access Roads for Grootfontein PV 1, Grootfontein PV 2 and Grootfontein PV 3



Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Proposed 3 x 175 MW **Grootfontein PV Facilities**

Grootfontein PV cluster site Grootfontein PV 1 Grootfontein PV 2 Grootfontein PV 3 Existing road

|) | Lat (y) | Long (x) | |
|---|----------|----------|--|
| | -32.9329 | 19.93414 | |
| | -32.9423 | 19.9483 | |
| | -32.9462 | 19.94393 | |
| | -32.9526 | 19.92172 | |
| | -32.9526 | 19.92742 | |

Appendix A.10: List of Co-ordinates for Grootfontein PV 1, Grootfontein PV 2 and Grootfontein PV 3

| | DD | | DMS | |
|-------|-----------------|------------------|-------------------|-------------------|
| Point | Latitude (Y) | Longitude (X) | Latitude (Y) | Longitude (X) |
| GF1-1 | -32.948374 | 19.948049 | 32° 56' 54.147" S | 19° 56' 52.978" E |
| GF1-2 | -32.968929 | 19.948288 | 32° 58' 8.146" S | 19° 56' 53.836" E |
| GF1-3 | -32.969240 | 19.954781 | 32° 58' 9.265" S | 19° 57' 17.210" E |
| GF1-4 | -32.961119 | 19.967145 | 32° 57' 40.029" S | 19° 58' 1.721" E |
| GF1-5 | -32.957526 | 19.966741 | 32° 57' 27.092" S | 19° 58' 0.266" E |
| GF1-6 | -32.95574 | 19.964849 | 32° 57' 20.664" S | 19° 57' 53.455" E |
| GF1-7 | -32.955762 | 19.960918 | 32° 57' 20.742" S | 19° 57' 39.305" E |
| GF1-8 | -32.948399 | 19.94935 | 32° 56' 54.238" S | 19° 56' 57.660" E |

Grootfontein PV 1

Grootfontein PV 2

| | DD | | DMS | |
|-------|-----------------|------------------|-------------------|-------------------|
| Point | Latitude (Y) | Longitude (X) | Latitude (Y) | Longitude (X) |
| GF2-1 | -32.940838 | 19.937853 | 32° 56' 27.017" S | 19° 56' 16.272" E |
| GF2-2 | -32.968417 | 19.938169 | 32° 58' 6.300" S | 19° 56' 17.408" E |
| GF2-3 | -32.968929 | 19.948288 | 32° 58' 8.146" S | 19° 56' 53.836" E |
| GF2-4 | -32.948374 | 19.948049 | 32° 56' 54.147" S | 19° 56' 52.978" E |
| GF2-5 | -32.947539 | 19.945324 | 32° 56' 51.142" S | 19° 56' 43.167" E |
| GF2-6 | -32.945363 | 19.943094 | 32° 56' 43.309" S | 19° 56' 35.137" E |
| GF2-7 | -32.942023 | 19.942102 | 32° 56' 31.284" S | 19° 56' 31.566" E |

Grootfontein PV 3

| | DD | | DMS | |
|-------|-----------------|------------------|-------------------|-------------------|
| Point | Latitude (Y) | Longitude (X) | Latitude (Y) | Longitude (X) |
| GF3-1 | -32.957207 | 19.924465 | 32° 57' 25.946" S | 19° 55' 28.073" E |
| GF3-2 | -32.968067 | 19.931061 | 32° 58' 5.040" S | 19° 55' 51.820" E |
| GF3-3 | -32.968417 | 19.938169 | 32° 58' 6.300" S | 19° 56' 17.408" E |
| GF3-4 | -32.940838 | 19.937853 | 32° 56' 27.017" S | 19° 56' 16.272" E |
| GF3-5 | -32.940004 | 19.935563 | 32° 56' 24.013" S | 19° 56' 8.026" E |

DRAFT BASIC ASSESSMENT REPORT: Basic Assessment for the Proposed Development of three 175 MW Solar Photovoltaic Facilities and associated Infrastructure (i.e. Grootfontein PV 1, Grootfontein PV 2, and Grootfontein PV 3), near Touws River, Western Cape

Access Road for Grootfontein PV 1, Grootfontein PV 2 and Grootfontein PV 3

| Point | DD | | DMS | |
|--------|--------------|---------------|-------------------|-------------------|
| | Latitude (Y) | Longitude (X) | Latitude (Y) | Longitude (X) |
| GF-R-1 | -32.93287087 | 19.93414289 | 32° 55' 58.335" S | 19° 56' 2.914" E |
| GF-R-2 | -32.9423025 | 19.94830191 | 32° 56' 32.289" S | 19° 56' 53.887" E |
| GF-R-3 | -32.94618053 | 19.94393123 | 32° 56' 46.250" S | 19° 56' 38.152" E |
| GF-R-4 | -32.9526221 | 19.92172417 | 32° 57' 9.440" S | 19° 55' 18.207" E |
| GF-R-5 | -32.95257386 | 19.92741582 | 32° 57' 9.266" S | 19° 55' 38.697" E |