

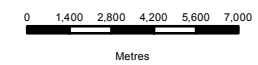
**BIO THERM ENERGY
(PTY) LTD**

DEVELOPMENT AREA

Legend

- Aggeneis Substation
- Development Area
- Khai-ma Local Municipality

Aggeneis Substation



DATA SOURCE:

CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL INFORMATION

PROJECTION: WGS HARTBEESHOEK 1984

PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579

SCALE: 1:250,000 AT A4 DATE: 25/07/2016

DRAWN BY: SABELO DUBE FIGURE NO: 2

REVIEWED BY: ASHLEA STRONG



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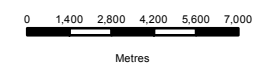
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E	18.857157	-29.401687
F	18.855134	-29.368256
G	18.905222	-29.396333
H	18.957927	-29.39098

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**BIO THERM ENERGY
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LOCALITY OF
ALTERNATIVE SITES

Legend

- Points
- Substation Locations
- N14
- Transmission Lines
- Water Pipeline Route Option 1
- Water Pipeline Route Option 2
- Alternative 2
- Alternative 1
- Khai-ma Local Municipality



DATA SOURCE:

CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL INFORMATION

PROJECTION: WGS 19 HARTEBESHOEK 94

PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579

SCALE: 1:250,000 AT A4 DATE: 25/07/2016

DRAWN BY: SABELO DUBE FIGURE NO: 1

REVIEWED BY: ASHLEA STRONG



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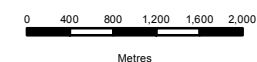


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**BIO THERM ENERGY
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LAYOUT OF LETSOAI
& ENAMANDLA

Legend

- Substation Locations
- Points
- Transmission Lines
- Letsoai CSP Sites
- Enamandla PV Sites
- ▭ Farm Portions
- Water Pipeline Route Option 1
- Water Pipeline Route Option 2



DATA SOURCE:
CHIEF DIRECTORATE: NATIONAL GEO-
SPATIAL INFORMATION

PROJECTION: WGS 19 HARTEBEEHOCK 94

PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579

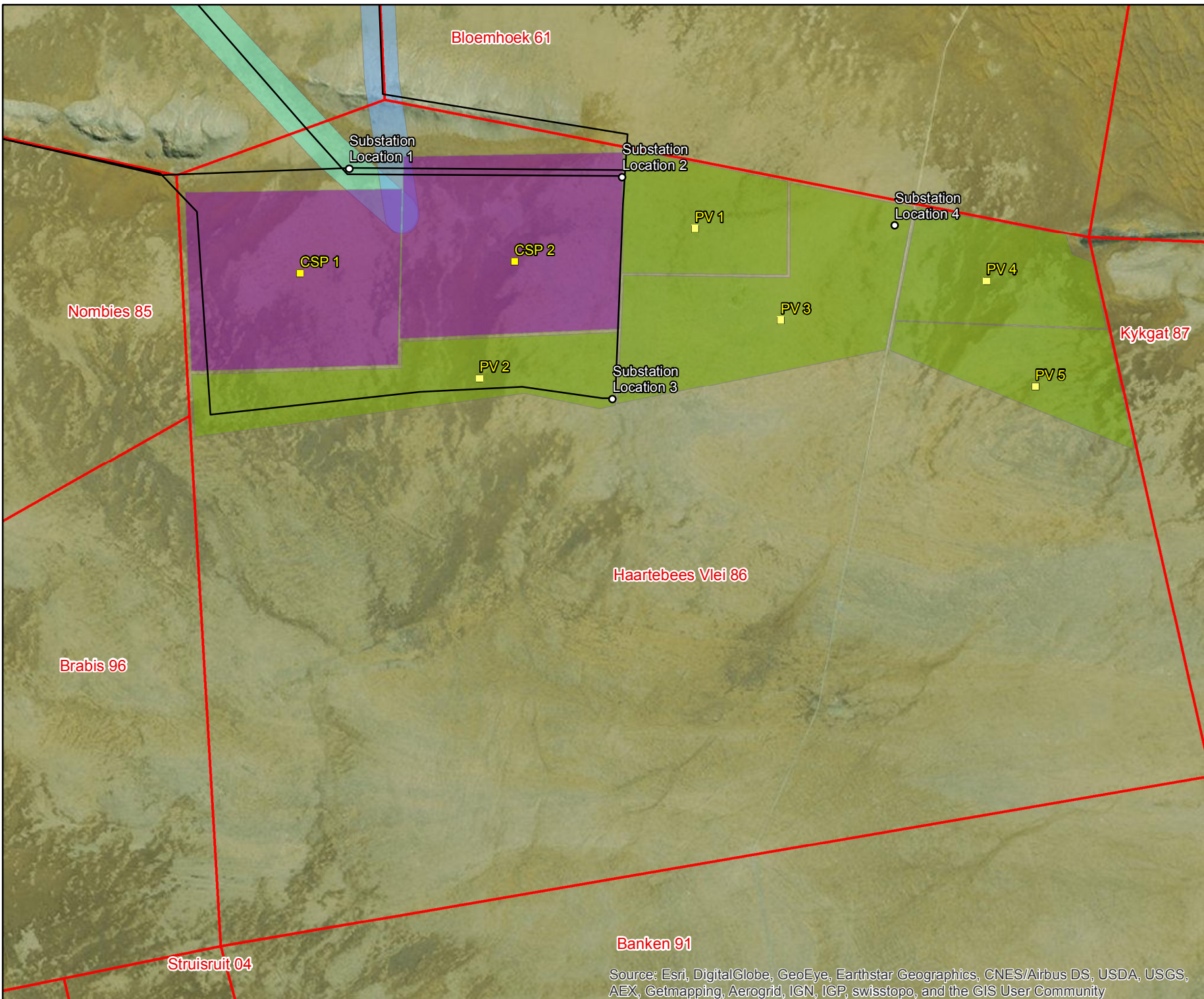
SCALE: 1:70,000 AT A4 DATE: 11/08/2016

DRAWN BY: SABELO DUBE FIGURE NO: 15

REVIEWED BY: ASHLEA STRONG



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Banken 91

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

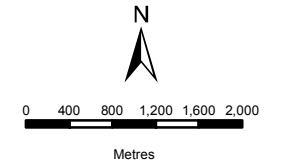
BIO THERM ENERGY (PTY) LTD
LAYOUT OF LETSOAI AND ENAMANDLA

Legend

- Points
- Substation Locations
- Letsoai CSP Sites
- Enamandla PV Sites
- ▭ Farm Portions

Powerlines

- Option 1
- Option 2
- Option 3
- Option 4
- Option 5



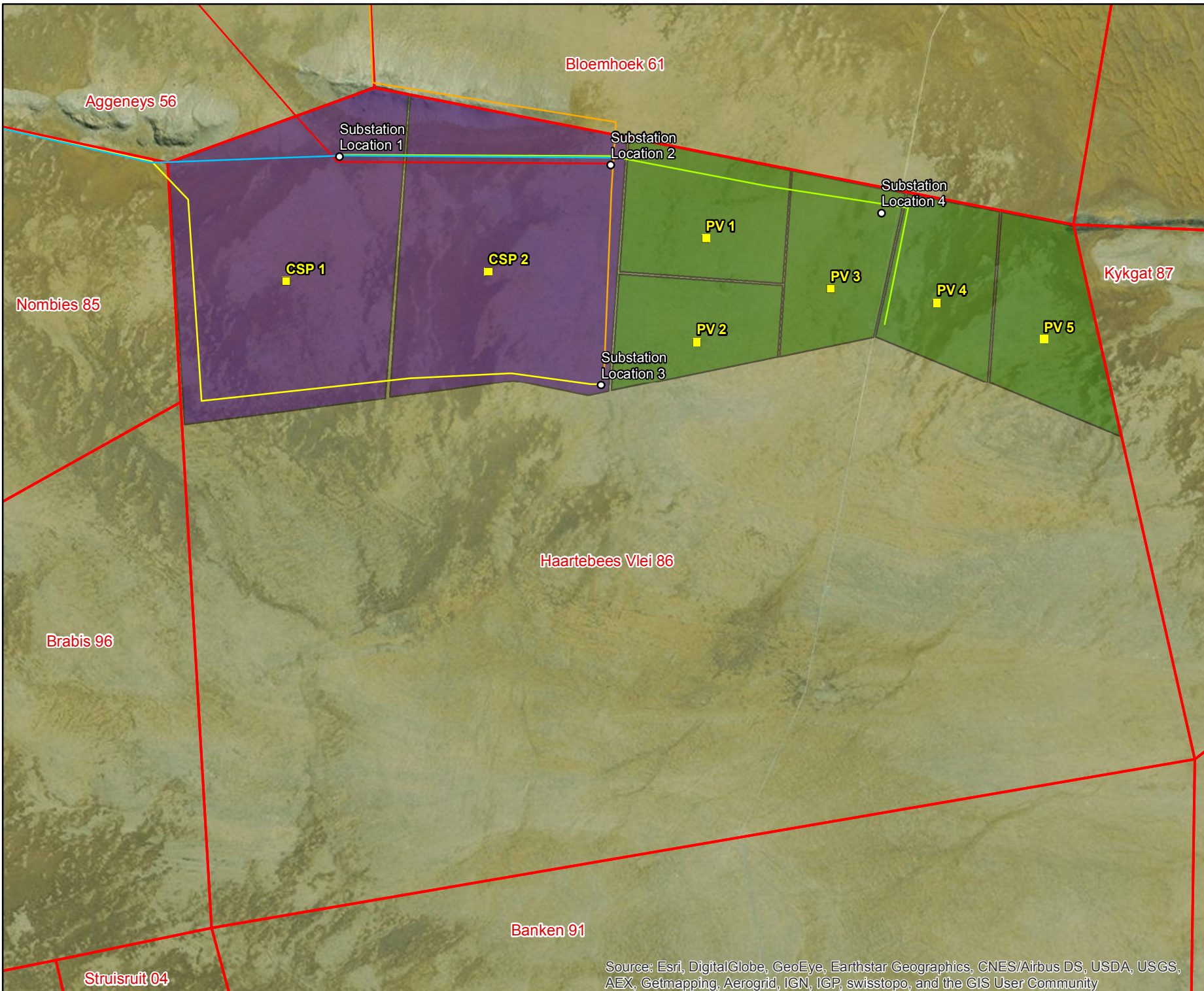
DATA SOURCE:
 CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL INFORMATION

PROJECTION: WGS 19 HARTEBEE SHOEK 94
 PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579
 SCALE: 1:70,000 AT A4 DATE: 18/08/2016
 DRAWN BY: SABELO DUBE FIGURE NO: 15
 REVIEWED BY: ASHLEA STRONG



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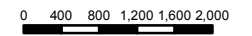


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**BIO THERM ENERGY
(PTY) LTD**
ENAMANDLA SITE 5

Legend

- Site Points
- Enamandla Site 5



Metres

DATA SOURCE:

CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL INFORMATION

PROJECTION: WGS 19 HARTEBEEHOCK 94

PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579

SCALE: 1:80,000 AT A4 DATE: 25/07/2016

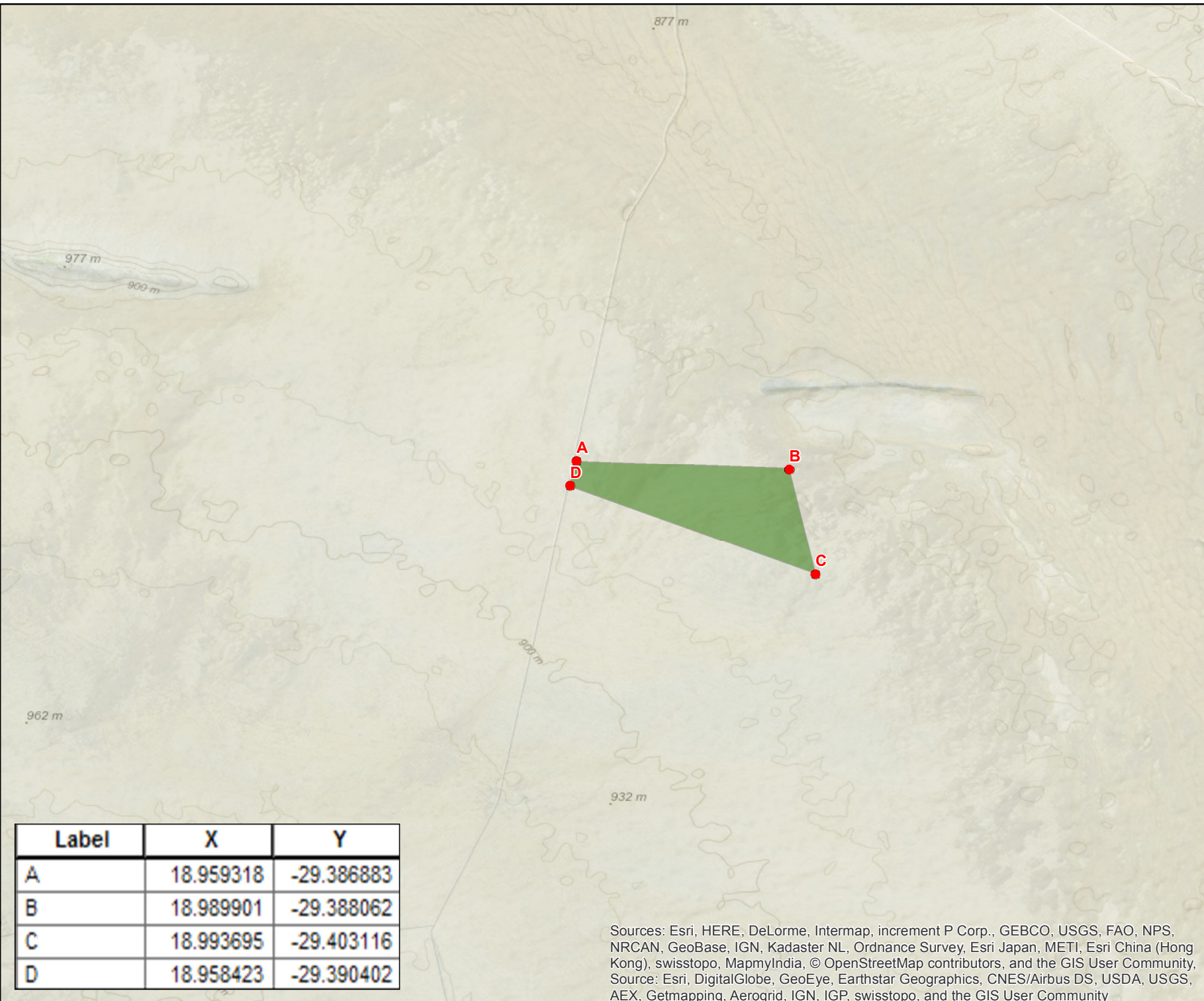
DRAWN BY: SABELO DUBE FIGURE NO: 6

REVIEWED BY: ASHLEA STRONG



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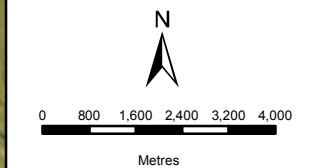
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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**BIO THERM ENERGY
(PTY) LTD**
SENSITIVITY MAP
 ENAMANDLA SITE 5

Legend

- Letsoai Substations
- Homesteads
- Letsoai Powerline Options
- Letsoai Ridgelines
- Heritage Sensitivities
- Gamsberg Inselberg
- Enamandla Site 5
- Letsoai Enamandla Boundaries
- Homesteads Buffer 400m
- Loop10Rd Buffer 500m
- N14 Buffer 3km
- Letsoai Substations Footprints



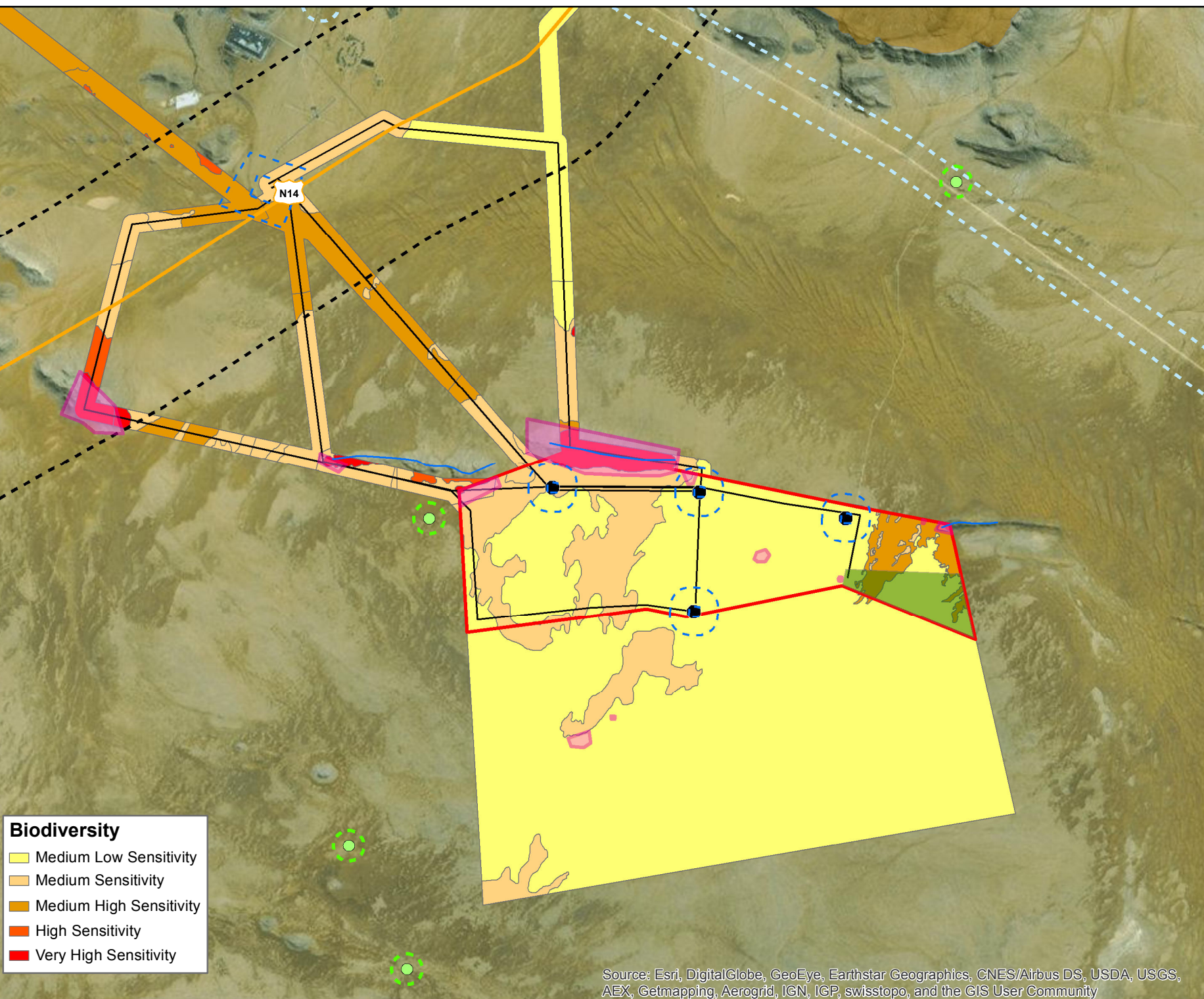
DATA SOURCE:
 CHIEF DIRECTORATE: NATIONAL GEO-SPATIAL INFORMATION

PROJECTION: WGS 19 HARTEBEE SHOEK 94
 PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579
 SCALE: 1:130,000 AT A4 DATE: 25/07/2016
 DRAWN BY: SABELO DUBE FIGURE NO: 7
 REVIEWED BY: ASHLEA STRONG



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Biodiversity

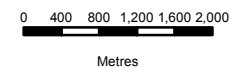
- Medium Low Sensitivity
- Medium Sensitivity
- Medium High Sensitivity
- High Sensitivity
- Very High Sensitivity

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**BIO THERM ENERGY
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ENAMANDLA SITE 5

Legend

- Site Points
- Enamandla Site 5



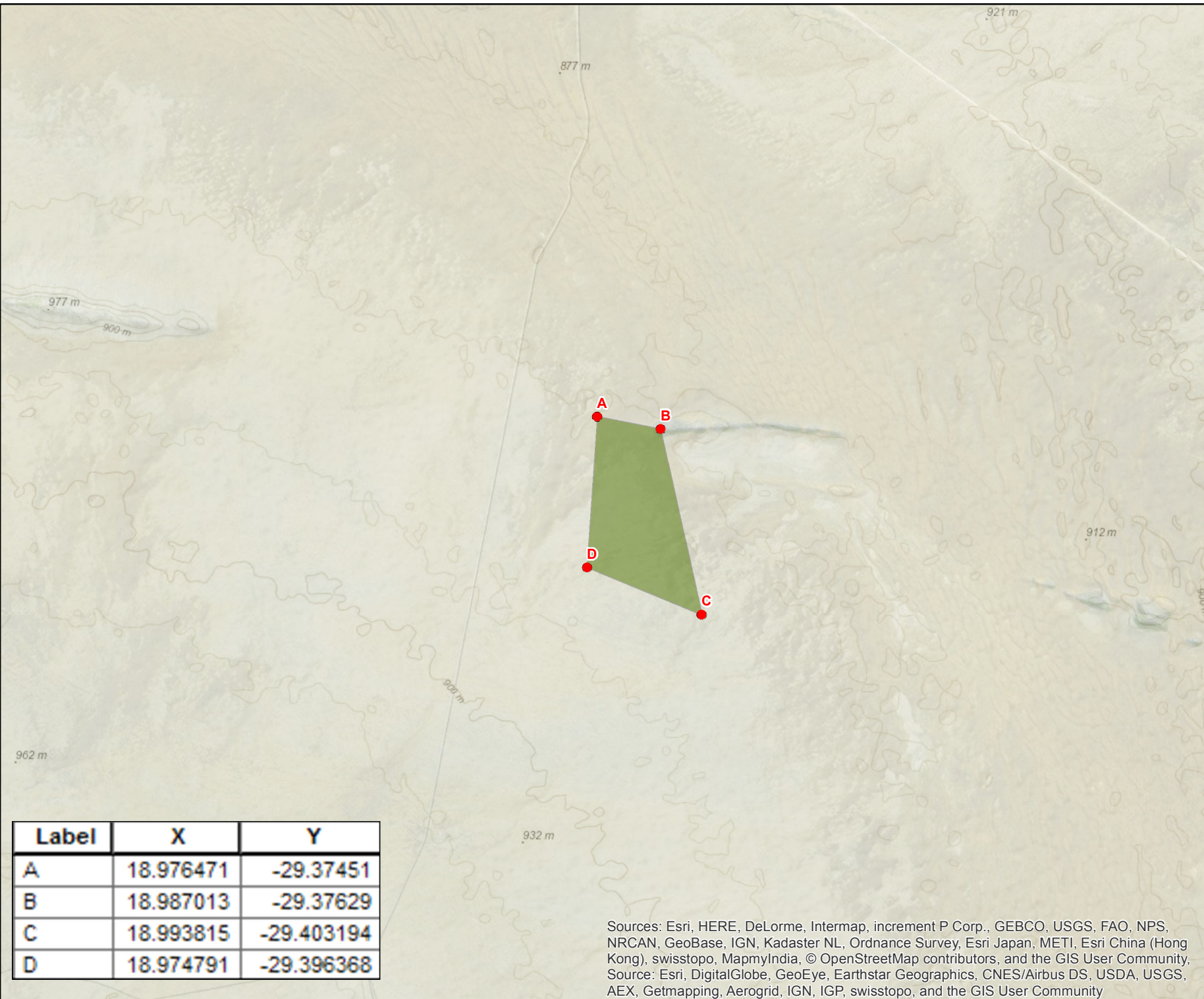
DATA SOURCE:
CHIEF DIRECTORATE: NATIONAL GEO-
SPATIAL INFORMATION

PROJECTION: WGS 19 HARTEBEESSHOEK 94
PROJECT TITLE: WIND AND SOLAR RENEWABLES

PROJECT NO: 47579
SCALE: 1:80,000 AT A4 DATE: 25/07/2016
DRAWN BY: SABELO DUBE FIGURE NO: 6
REVIEWED BY: ASHLEA STRONG



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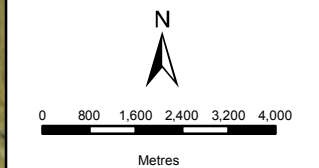
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C	18.993815	-29.403194
D	18.974791	-29.396368

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**BIO THERM ENERGY
(PTY) LTD**
SENSITIVITY MAP
 ENAMANDLA SITE 5

Legend

- Letsoai Substations
- Homesteads
- Letsoai Powerline Options
- Letsoai Ridgelines
- Heritage Sensitivities
- Gamsberg Inselberg
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- Letsoai Enamandla Boundaries
- Homesteads Buffer 400m
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- Letsoai Substations Footprints



DATA SOURCE:
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Biodiversity

- Medium Low Sensitivity
- Medium Sensitivity
- Medium High Sensitivity
- High Sensitivity
- Very High Sensitivity

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community