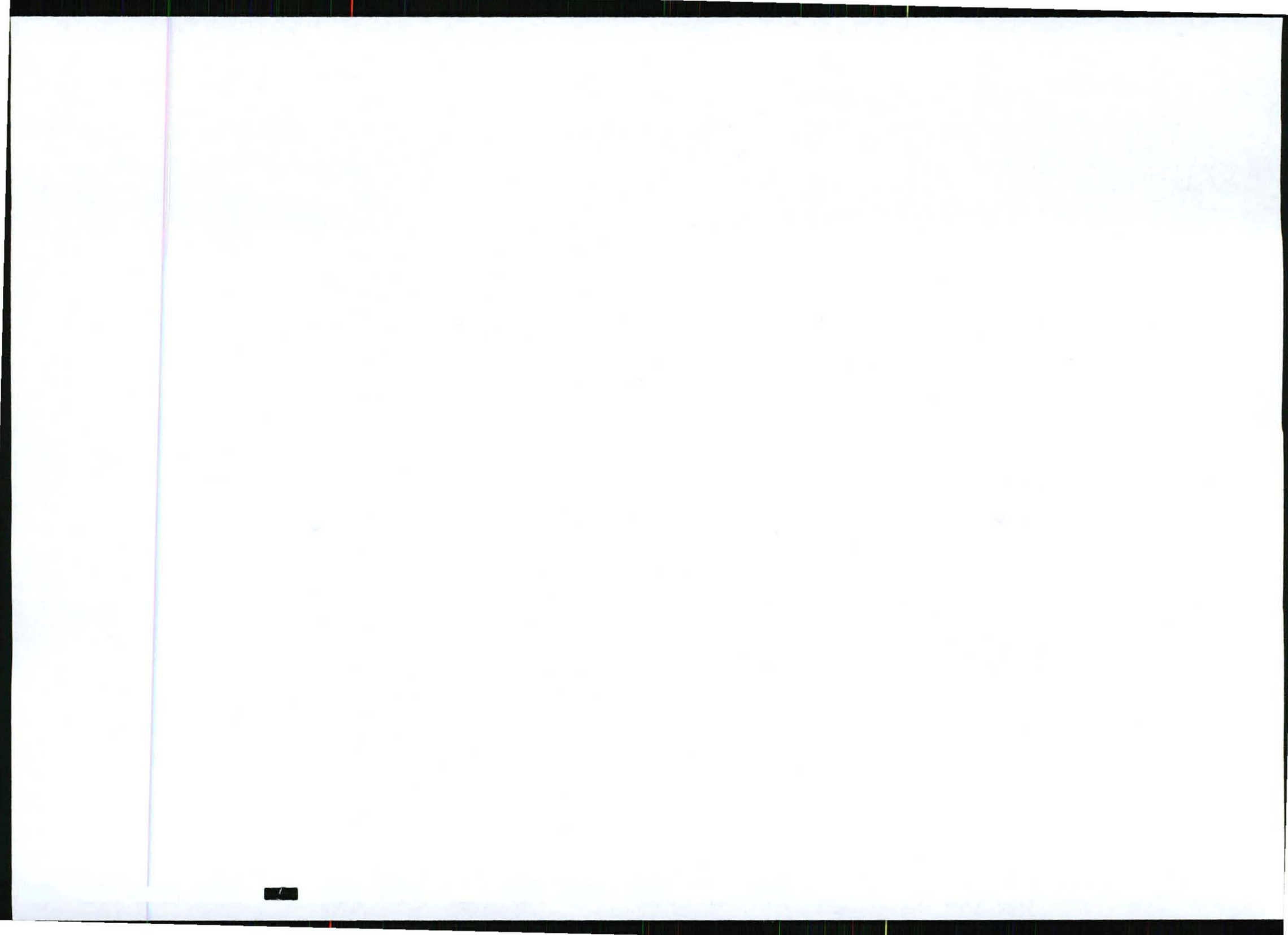


SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

- | | |
|---|-------------------------------|
| 3.1.4 National Environmental Management: Biodiversity Act | <input type="checkbox"/> /No |
| 3.1.5 Mineral Petroleum Development Resources Act | <input type="checkbox"/> /No |
| 3.1.6 National Water Act | Yes/ <input type="checkbox"/> |
| 3.1.7 National Heritage Resources Act | Yes/ <input type="checkbox"/> |
| 3.1.8 Other (please specify) | <input type="checkbox"/> /No |
| 3.2 Have such applications been lodged already? | <input type="checkbox"/> /No |



SECTION F: APPENDICES

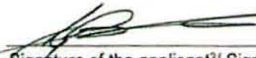
Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4. DECLARATIONS

4.1 The Applicant

I, Grant Berndsen, declare that I -

- am, or represent¹, the applicant in this application;
- have appointed / will appoint (delete that which is not applicable) an environmental assessment practitioner to act as the independent environmental assessment practitioner for this application / will obtain exemption from the requirement to obtain an environmental assessment practitioner²;
- will provide the environmental assessment practitioner and the competent authority with access to all information at my disposal that is relevant to the application;
- will be responsible for the costs incurred in complying with the Environmental Impact Assessment Regulations, 2010, including but not limited to –
 - costs incurred in connection with the appointment of the environmental assessment practitioner or any person contracted by the environmental assessment practitioner;
 - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- will ensure that the environmental assessment practitioner is competent to comply with the requirements of these Regulations and will take reasonable steps to verify whether the EAP complies with the Regulations;
- will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- hereby indemnify the Government of the Republic, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or environmental assessment practitioner is responsible for in terms of these Regulations;
- will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- will perform all other obligations as expected from an applicant in terms of the Regulations;
all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.


Signature of the applicant³/ Signature on behalf of the applicant:

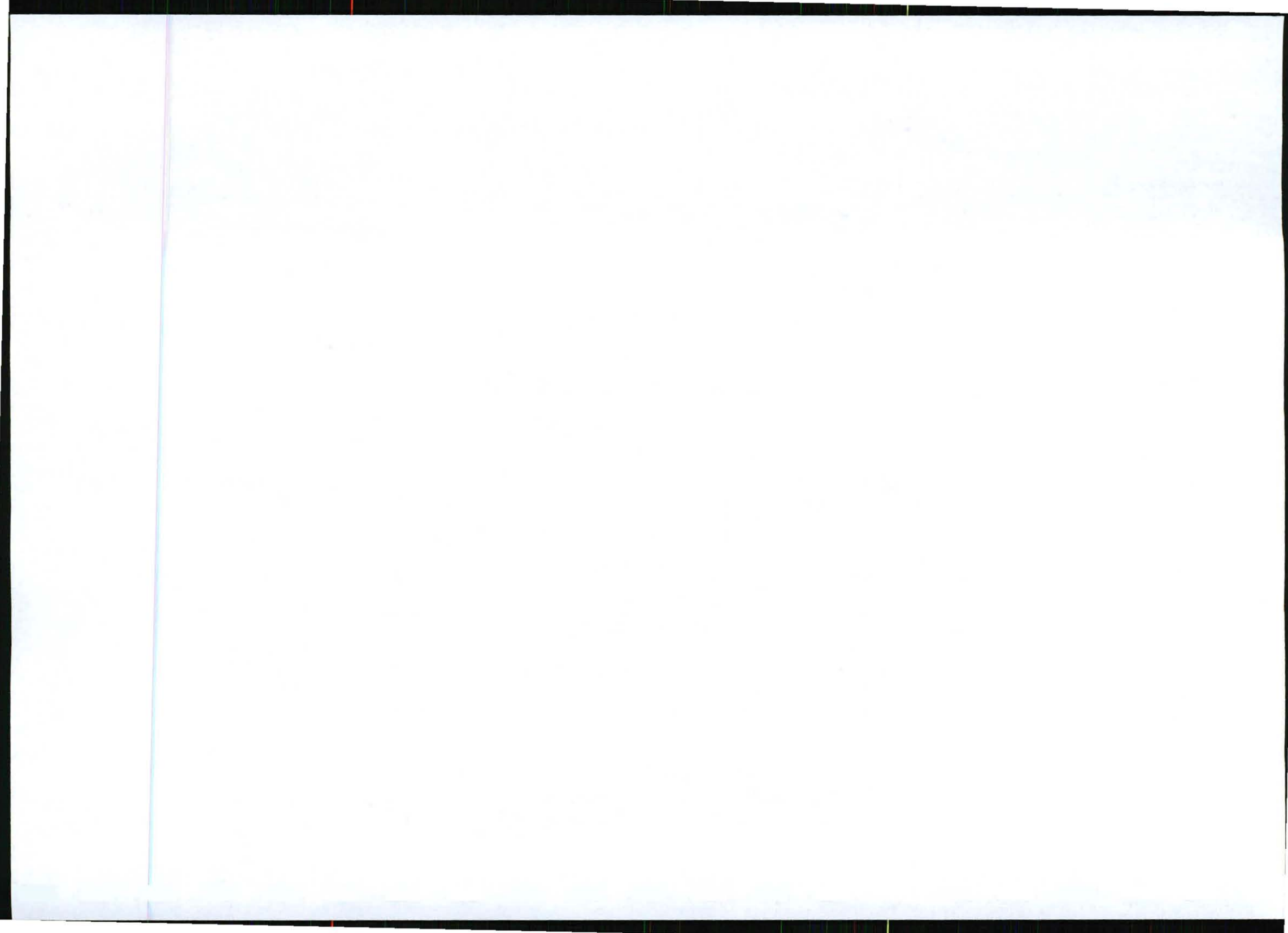
Solaire Direct Southern Africa
Name of company (if applicable):

19 January 2012
Date:

¹ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached.

² If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

³ If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority. An EAP may not sign on behalf of an applicant.

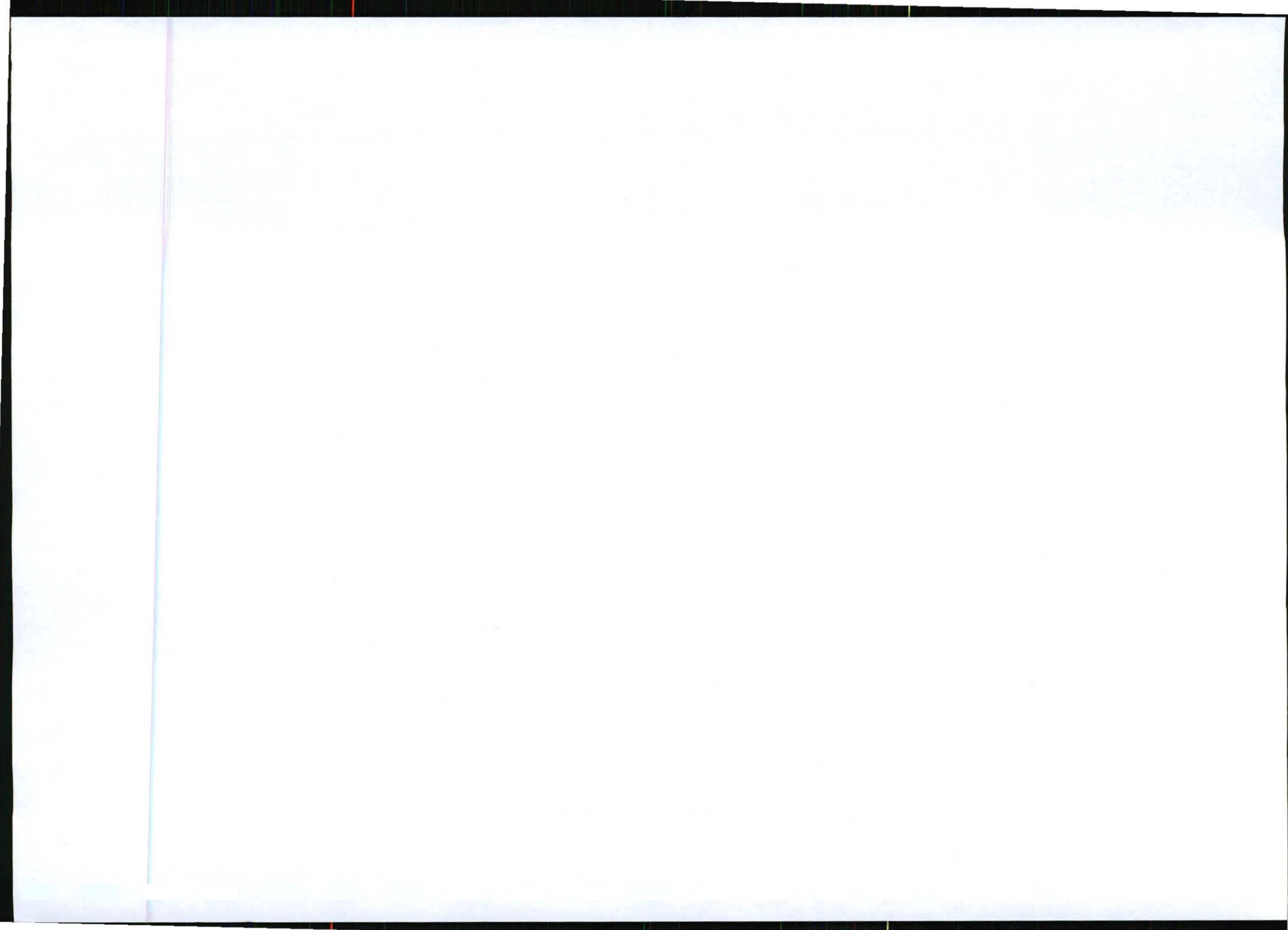


SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Appendix A: Project Schedule for the Solaire Direct Photovoltaic Basic Assessment Project

Task	Jan 2012	Feb 2012	March 2012	April 2012	May 2012	June 2012
1. Kick-off meeting and announce project, I&AP registration						
2. Conduct site visit and prepare Draft BA Report and EMP						
3. Public review of Draft BA report (40 days)						
4. Collate comments and prepare Final BA Report and EMP						
5. Public review of Final BA Report (21 days)						
6. Authority decision-making followed by appeal period						→



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF EAP AND DECLARATION OF INTEREST

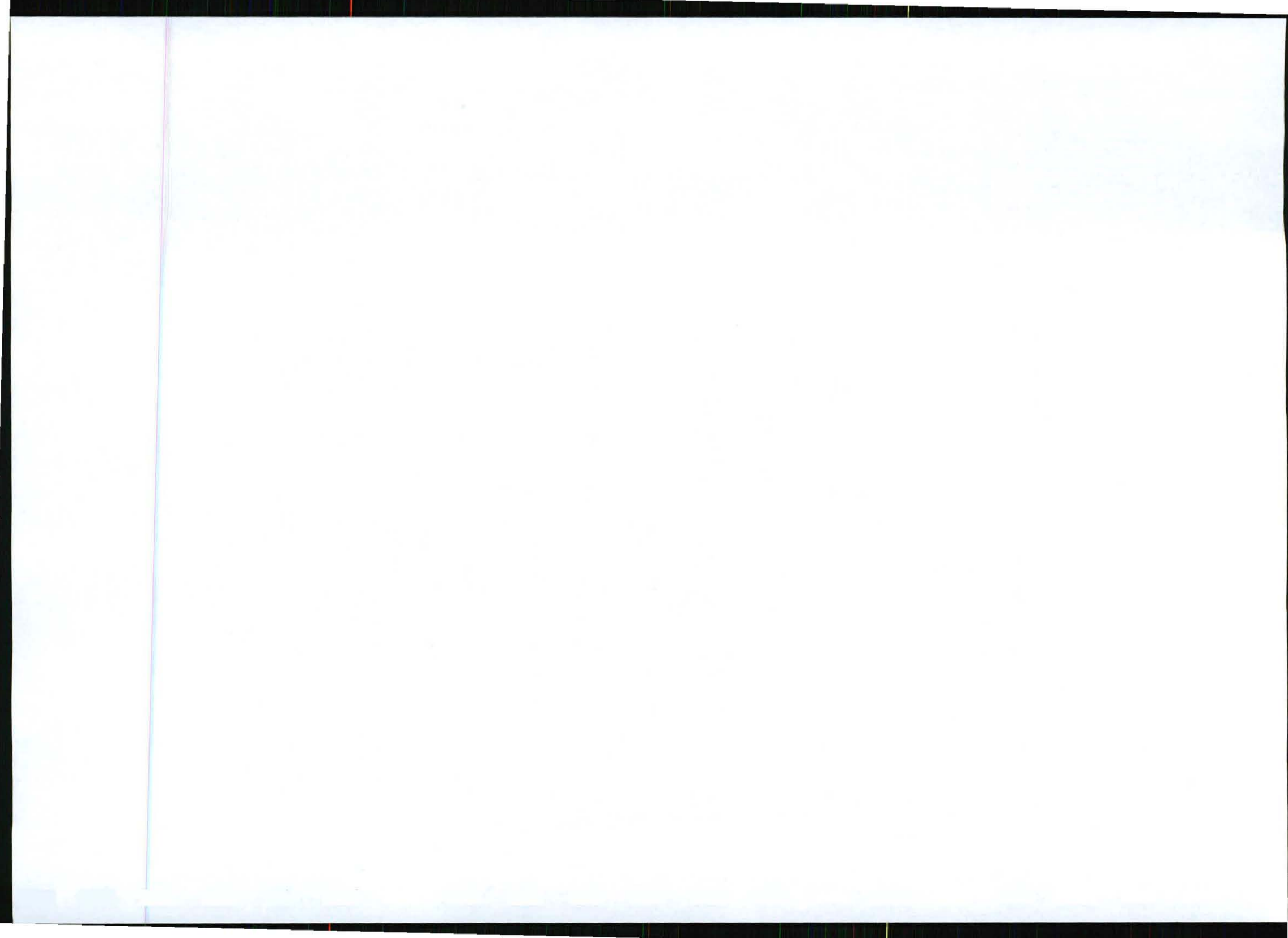
	(For official use only)
File Reference Number:	12/12/20/
NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Solaire Direct Glen Thorne Solar Photovoltaic Facility of 10MW near Bloemfontein, Free State

Environmental Assessment Practitioner (EAP): ¹	CSIR		
Contact person:	Ismail Banoo		
Postal address:	PO BOX 17001, Congella, Durban, South Africa		
Postal code:	4001	Cell:	
Telephone:	+27 31 242 2378	Fax:	+27 31 261 2509
E-mail:	ibanoo@csir.co.za		
Professional affiliation(s) (if any)	EAPSA Certified		
Project Consultant:	CSIR		
Contact person:	Samantha Naidoo		
Postal address:	PO BOX 17001, Congella, Durban, South Africa		
Postal code:	4001	Cell:	
Telephone:	+27 31 242 2397	Fax:	+27 31 261 2509
E-mail:	snaidoo5@csir.co.za		



SECTION F: APPENDICES

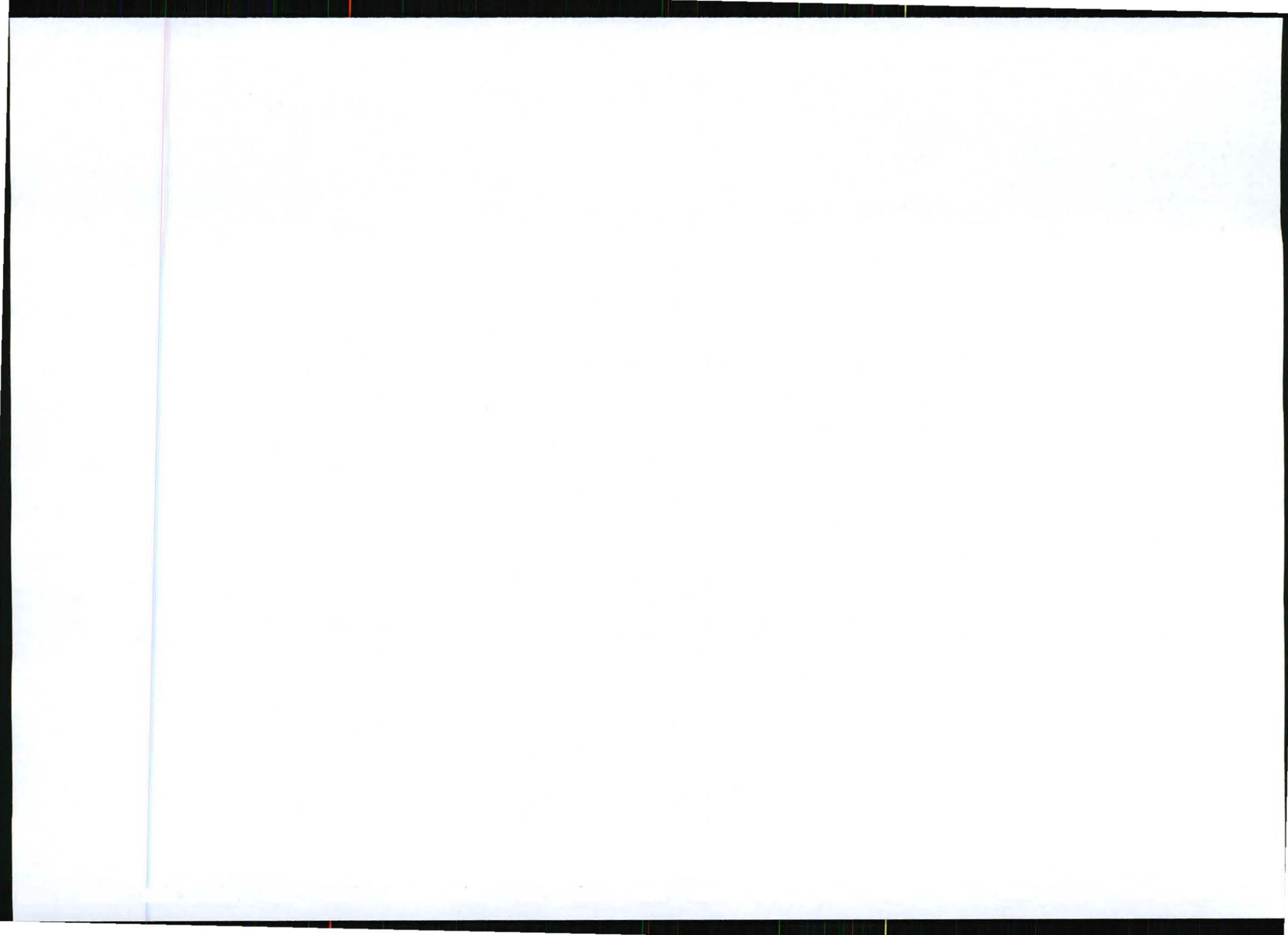
Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4.2 The Environmental Assessment Practitioner

I, **Ismail Banoo**, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- I will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 and is punishable in terms of section 24F of the Act.



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Environmental Impact Assessment Regulations, 2010;
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~



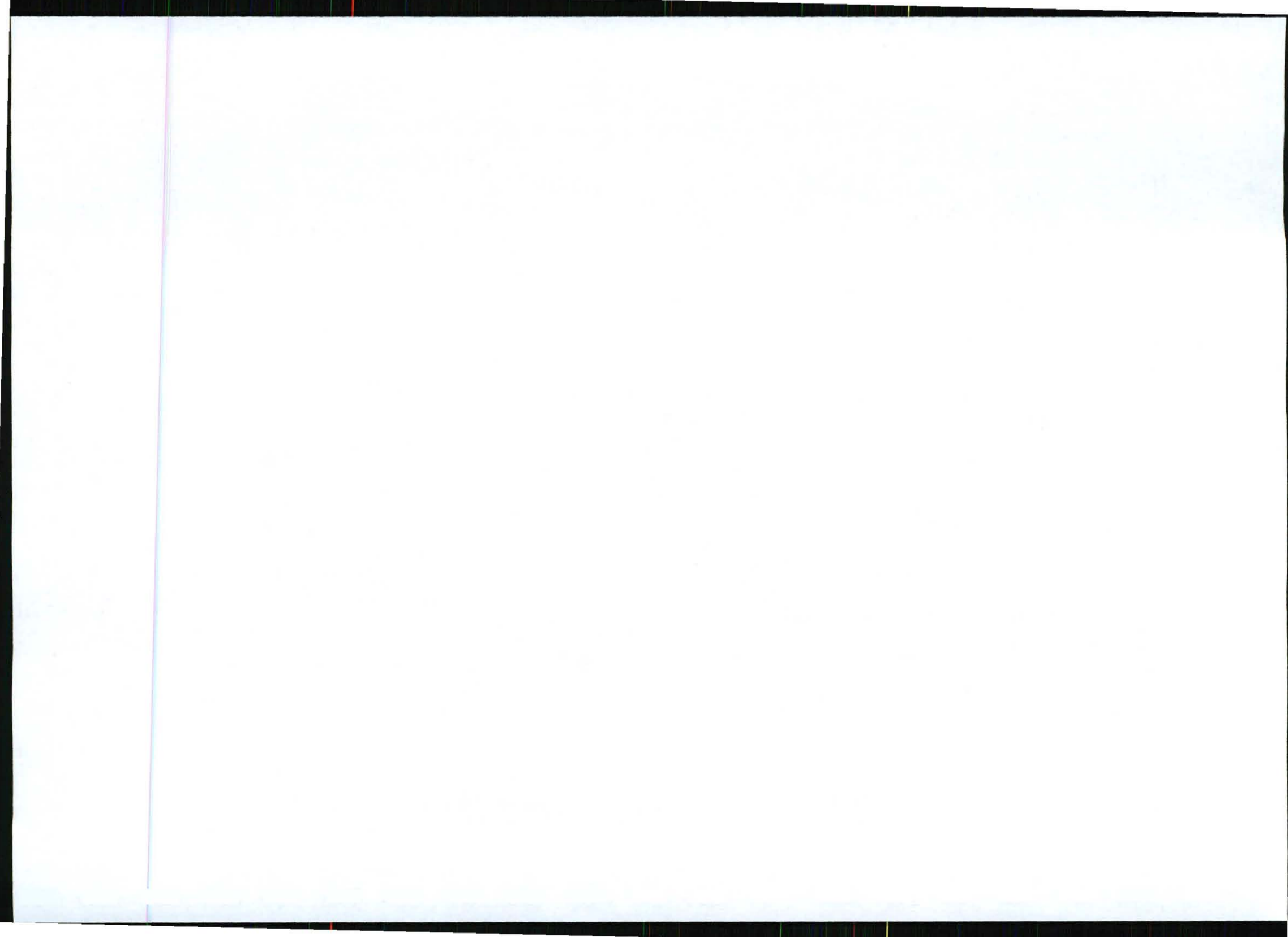
Signature of the environmental assessment practitioner:

Council for Scientific and Industrial Research (CSIR)

Name of company:

20 January 2012

Date:

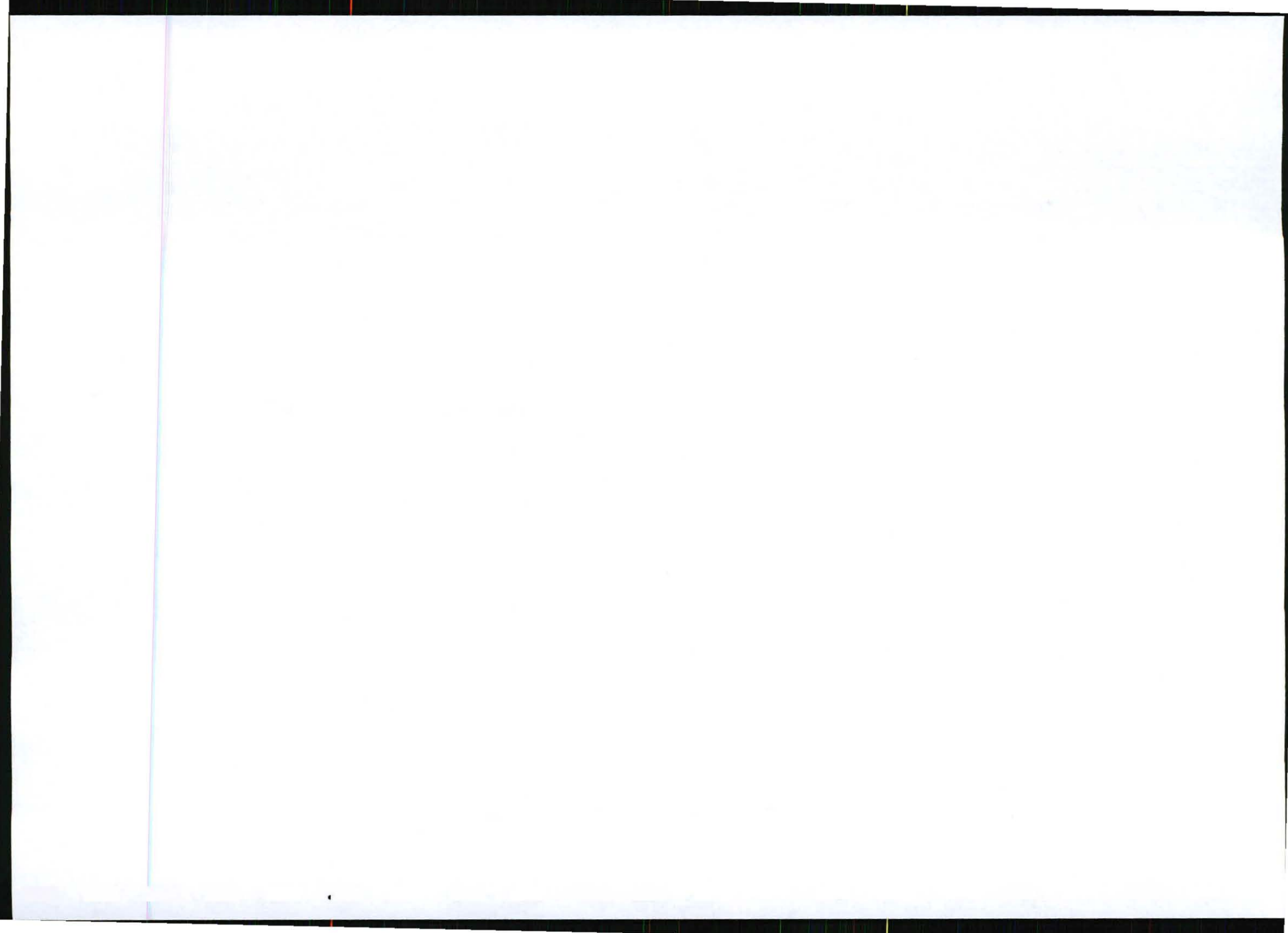


SECTION F: APPENDICES

**Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province**

**Appendix G.2 Letter from DEA acknowledging receipt of the Application (Dated:
17/02/2012).**

Next page/...



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 - PRETORIA - 0001 - Fedsure Building - 315 Pretorius Street - PRETORIA
Tel (+ 27 12) 310 3911 - Fax (+ 2712) 322 2682

NEAS Reference: DEA/EIA/0000976/2012

DEA Reference: 14/12/16/3/3/1/455

Enquiries: Nyiko Nkosi

Tel: 012 395 1694 /1768 Fax: 012 320 7539 E-mail: nnkosi@environment.gov.za

Ismail Banoo
CSIR
PO Box 17001
Congella
DURBAN
4013

Fax: 031 261 2509

Tel: 031 242 2378

PER FACSIMILE / MAIL

Dear Sir/Madam

ACKNOWLEDGEMENT OF RECEIPT AND ACCEPTANCE OF NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (BASIC ASSESSMENT PROCESS) FOR THE PROPOSED SOLAIRE DIRECT GLEN THORNE SOLAR PHOTOVOLTAIC FACILITY OF 10MW NEAR BLOEMFONTEIN, MANGAUNG LOCAL MUNICIPALITY, FREE STATE PROVINCE

The Department confirms having received the Application Form and EAP Declaration of Interest on 26 January 2012 for environmental authorisation for the abovementioned project. The Application is accepted.

Please note that the Department will request the delegation of authority from the provincial Department and will notify you with regards to the outcome.

Please include both reference numbers (NEAS Reference and DEA Reference), as listed above, on all documents and correspondence submitted to the Department.

Please note that one hard copy and one electronic copy (saved on CD/DVD) of draft reports, and five hard copies and one electronic copy of final reports must be submitted to the Department.

In addition, please consider the following during compilation of reports for this application for environmental authorisation:

- All applicable Departmental Guidelines must be considered throughout the application process. These can be downloaded from the Department's website: www.environment.gov.za, Environmental Impact Management button, listed under "EIA Administration": Integrated Environmental Management Information Series link. These



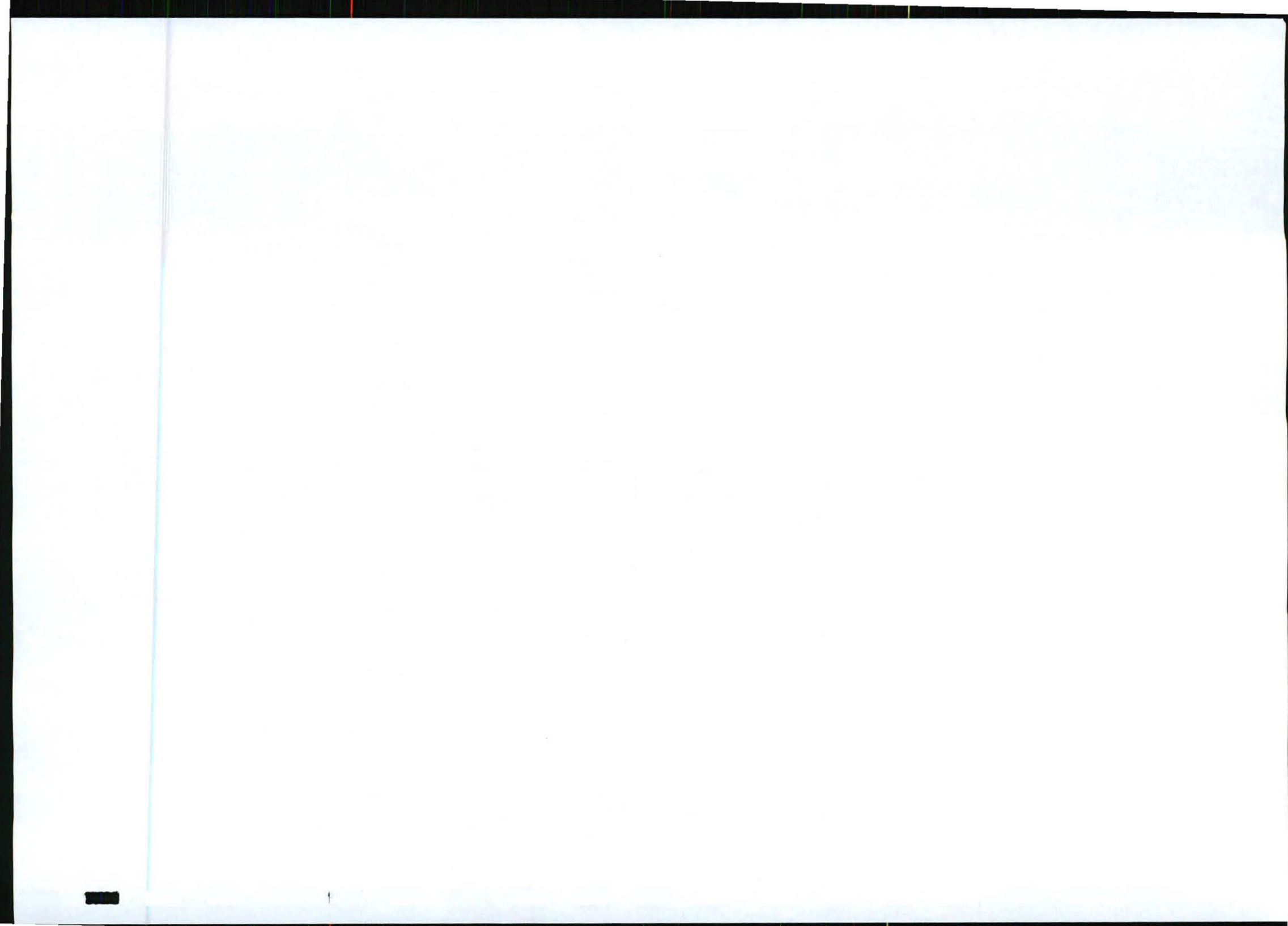
SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

include, but are not limited to, the following topics: Scoping, Environmental Impact Reporting, Stakeholder Engagement, Specialist Studies, Impact Significance, Cumulative Effects Assessments, Alternatives in EIA and Environmental Management Plans.

- Please be advised that in terms of the EIA Regulations and NEMA the investigation of alternatives is mandatory. Alternatives must therefore be identified, investigated to determine if they are feasible and reasonable. It is also mandatory to investigate and assess the option of not proceeding with the proposed activity (the "no-go" option).
- Refer to the attached annexure for specific requirements for the submission of applications for environmental authorisation for solar power generation facilities.
- Should water, solid waste removal, effluent discharge, stormwater management and electricity services be provided by the municipality, you are requested to provide this office with written proof that the municipality has sufficient capacity to provide the necessary services to the proposed development. Confirmation of the availability of services from the service providers must be provided together with the reports to be submitted.
- In the reports to be submitted it must clearly be demonstrated in which way the proposed development will meet the requirements of sustainable development. You must also consider energy efficient technologies and water saving devices and technologies for the proposed development. This could include measures such as the recycling of waste, the use of low voltage or compact fluorescent lights instead of incandescent globes, maximising the use of solar heating, the use of dual flush toilets and low-flow shower heads and taps, the management of storm water, the capture and use of rainwater from gutters and roofs, the use of locally indigenous vegetation during landscaping and the training of staff to implement good housekeeping techniques.
- The applicant/EAP is required to inform this Department in writing upon submission of any draft report, of the contact details of the relevant State Departments (that administer laws relating to a matter affecting the environment) to whom copies of the draft report were submitted for comment. Upon receipt of this confirmation, this Department will in accordance with Section 24O(2) & (3) of the National Environmental Management Act, 1998 (Act 107 of 1998) inform the relevant State Departments of the commencement date of the 40 day commenting period, or 60 days in the case of the Department of Water Affairs for waste management activities which also require a licence in terms of the National Water Act, 1998 (Act 36 of 1998).
- Should it be necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999), please submit the necessary application to SAHRA or the relevant provincial heritage agency and submit proof thereof with the Basic Assessment Report/Environmental Impact Assessment Report. The relevant heritage agency should also be involved during the public participation process and have the opportunity to comment on all the reports to be submitted to this Department.

In terms of regulation 67 of the EIA Regulations, 2010 this application will lapse if the applicant (or the EAP on behalf of the applicant) fails to comply with a requirement in terms of the Regulations for a period of six months after having submitted the application, unless the reasons for failure have been communicated to and accepted by this Department.



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely



Mr Ishaam Abader

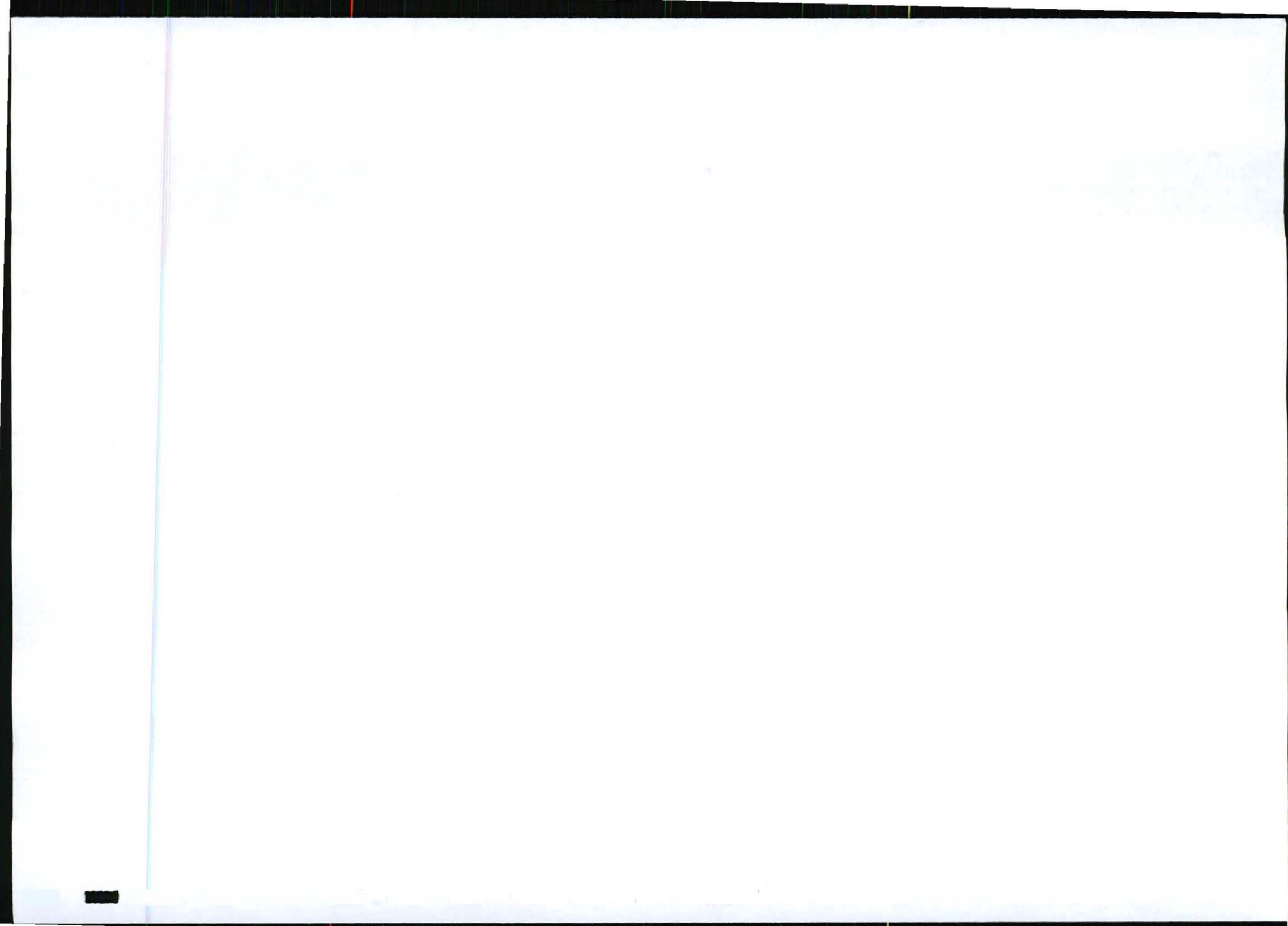
**Deputy Director-General: Environmental Quality and Protection
Department of Environmental Affairs**

Letter signed by: Ms Nyiko Nkosi

Designation: Environmental Officer: Environmental Impact Evaluation

Date: 17/02/2012

CC:	Mr Grant Berndsen	Solaire Direct Southern Africa	Tel: 021 953 6014	Fax: 021 951 2840
	Tebogo Lioma	Free State Department of Economic Development, Tourism and Environmental Affairs	Tel: 051 400 4913	Fax: 051 400 9523
	Sonja Freemantle	Mangaung Municipality	Tel: 051 713 0036	Fax: 051 405 8310



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

A. EIA INFORMATION REQUIRED FOR SOLAR ENERGY FACILITIES

1. General site information

The following general site information is required:

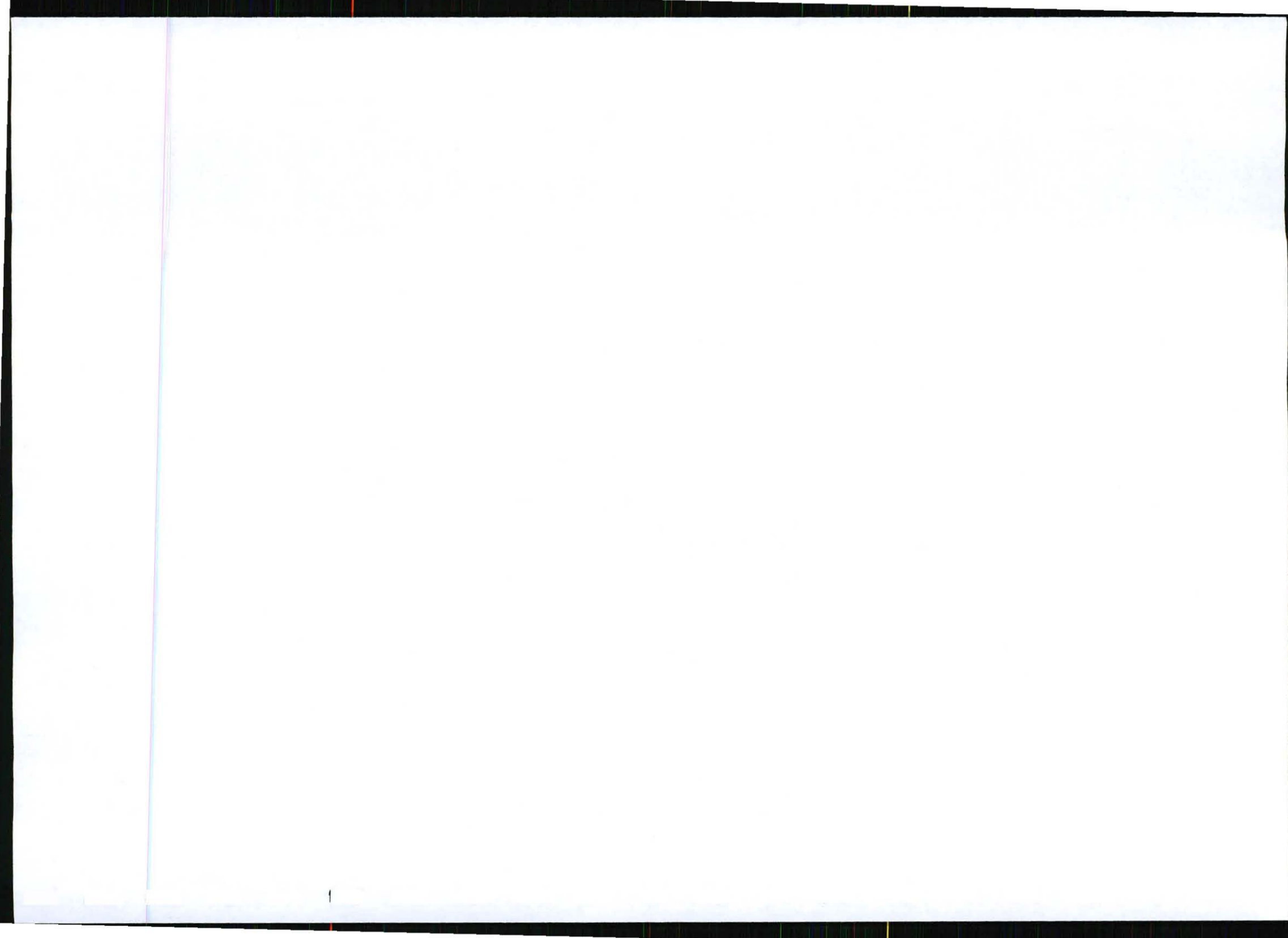
- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
- Copies of deeds of all affected farm portions
- Photos of areas that give a visual perspective of all parts of the site
- Photographs from sensitive visual receptors (tourism routes, tourism facilities, etc.)
- Solar plant design specifications including:
 - Type of technology
 - Structure height
 - Surface area to be covered (including associated infrastructure such as roads)
 - Structure orientation
 - Laydown area dimensions (construction period and thereafter)
 - Generation capacity
- Generation capacity of the facility as a whole at delivery points

This information must be indicated on the first page of any Scoping or EIA document. It is also advised that it be double checked as there are too many mistakes in the applications that have been received that take too much time from authorities to correct.

2. Site maps and GIS information

Site maps and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- All affected farm portions must be indicated
- The exact site of the application must be indicated (the areas that will be occupied by the application)
- A status quo map/layer must be provided that includes the following:
 - Current use of land on the site including
 - Buildings and other structures
 - Agricultural fields
 - Grazing areas
 - Natural vegetation areas (natural veld not cultivated for the preceding 10 years) with an indication of the vegetation quality as well as fine scale mapping in respect of Critical Biodiversity Areas and Ecological Support Areas
 - Critically endangered and endangered vegetation areas that occur on the site
 - Bare areas which may be susceptible to soil erosion
 - Cultural historical sites and elements
 - Rivers, streams and water courses
 - Ridgelines and 20m continuous contours with height references in the GIS database
 - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

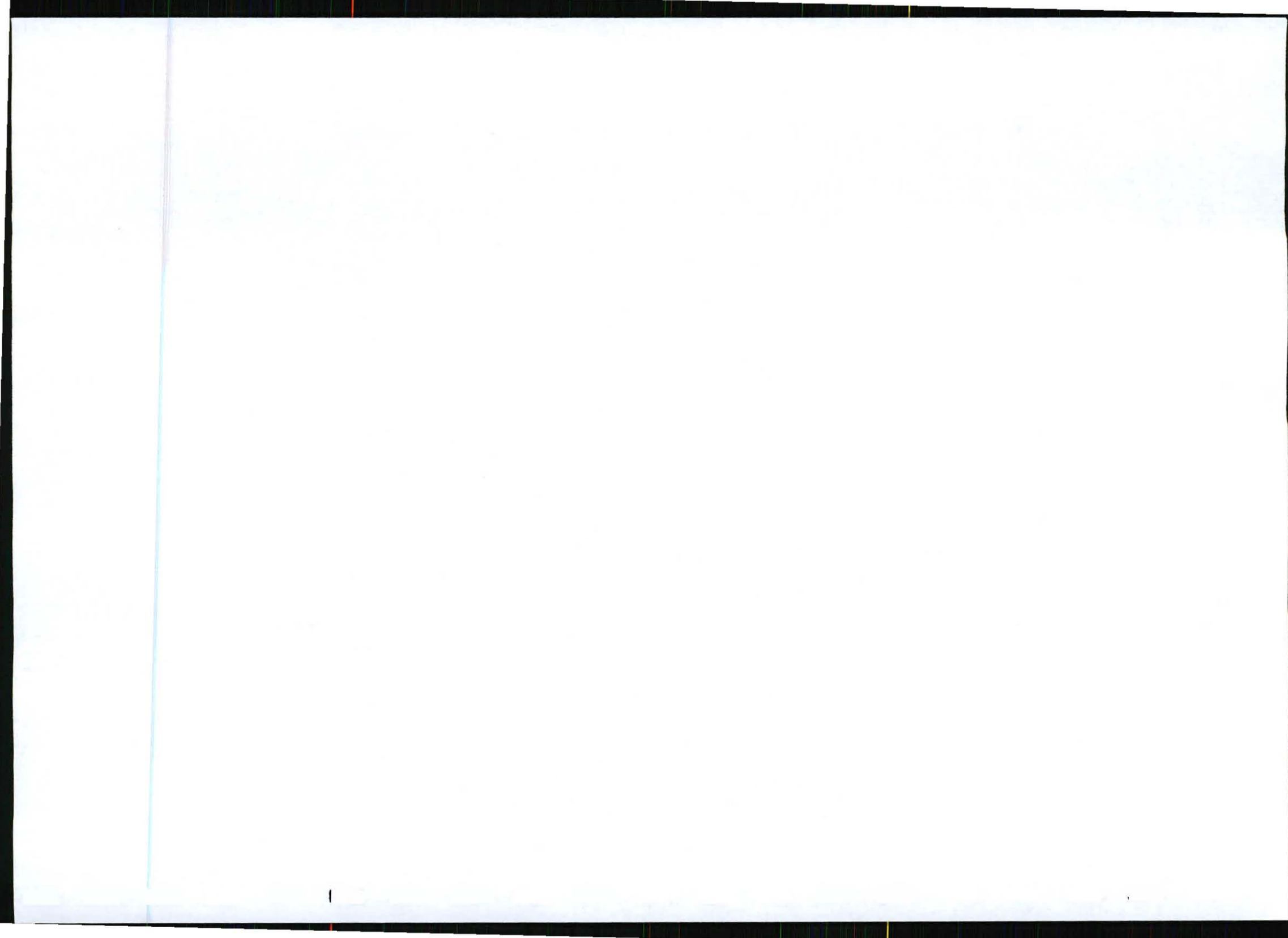
- High potential agricultural areas as defined by the Department of Agriculture, Forestry and Fisheries
- Buffer zones (also where it is dictated by elements outside the site):
 - 500m from any irrigated agricultural land
 - 1km from residential areas
- Indicate isolated residential, tourism facilities on or within 1km of the site
- A slope analysis map/layer that include the following slope ranges:
 - Less than 8% slope
 - between 8% and 12% slope
 - between 12% and 14% slope
 - steeper than 18 % slope
- A map/layer that indicate locations of birds and bats including roosting and foraging areas (specialist input required)
- A site development proposal map(s)/layer(s) that indicate:
 - Positions of solar facilities
 - Foundation footprint
 - Permanent laydown area footprint
 - Construction period laydown footprint
 - Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible)
 - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
 - Substation(s) and/or transformer(s) sites including their entire footprint.
 - Cable routes and trench dimensions (where they are not along internal roads)
 - Connection routes to the distribution/transmission network (the connection must form part of the EIA even if the construction and maintenance thereof will be done by another entity such as ESKOM)
 - Cut and fill areas along roads and at substation/transformer sites indicating the expected volume of each cut and fill
 - Borrow pits
 - Spoil heaps (temporary for topsoil and subsoil and permanently for excess material)
 - Buildings including accommodation

With the above information authorities will be able to assess the strategic and site impacts of applications.

3. Regional map and GIS information

The regional map and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- The map/layer must cover an area of 20km around the site
- Indicate the following:
 - roads including their types (tarred or gravel) and category (national, provincial, local or private)
 - Railway lines and stations
 - Industrial areas
 - Harbours and airports
 - Electricity transmission and distribution lines and substations



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

- Pipelines
- Water sources to be utilised during the construction and operational phases
- A visibility assessment of the areas from where the facility will be visible
- Critical Biodiversity Areas and Ecological Support Areas
- Critically Endangered and Endangered vegetation areas
- Agricultural fields
- Irrigated areas
- An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams

4. Important stakeholders

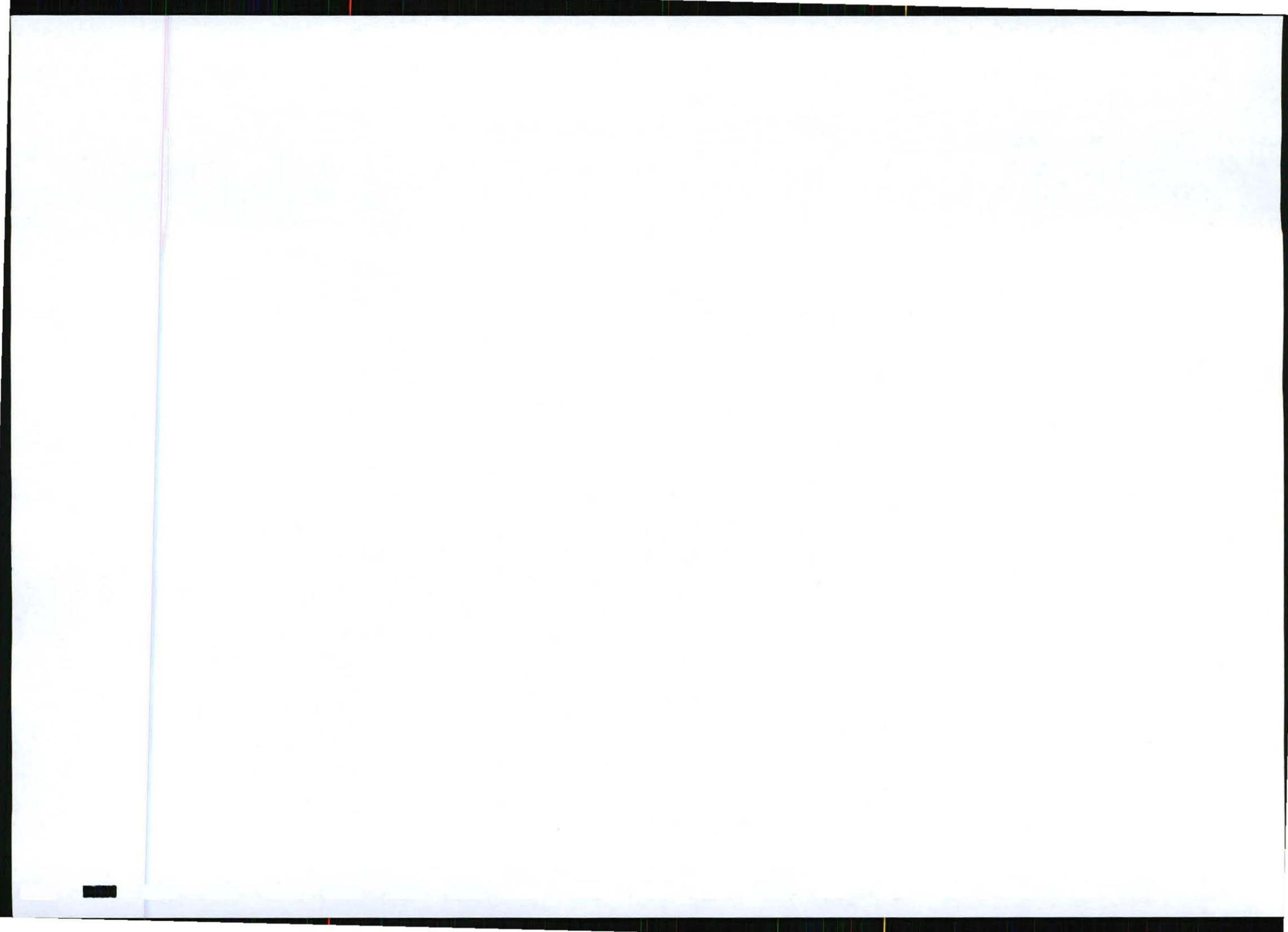
Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Request for comment must be submitted to:

Mrs. Anneliza Collett
Directorate: Land Use & Soil Management
Department of Agriculture, Forestry & Fisheries
Tel: 012 - 319 7508
Fax: 012 - 329 5938
e-mail: AnnelizaC@nda.agric.za
www.agis.agric.za

In addition, comments must be requested from Eskom (Mr Kevin Leask or Mr Ronald Marais (011) 8008111) regarding grid connectivity and capacity.

B. AGRICULTURE STUDY REQUIREMENTS

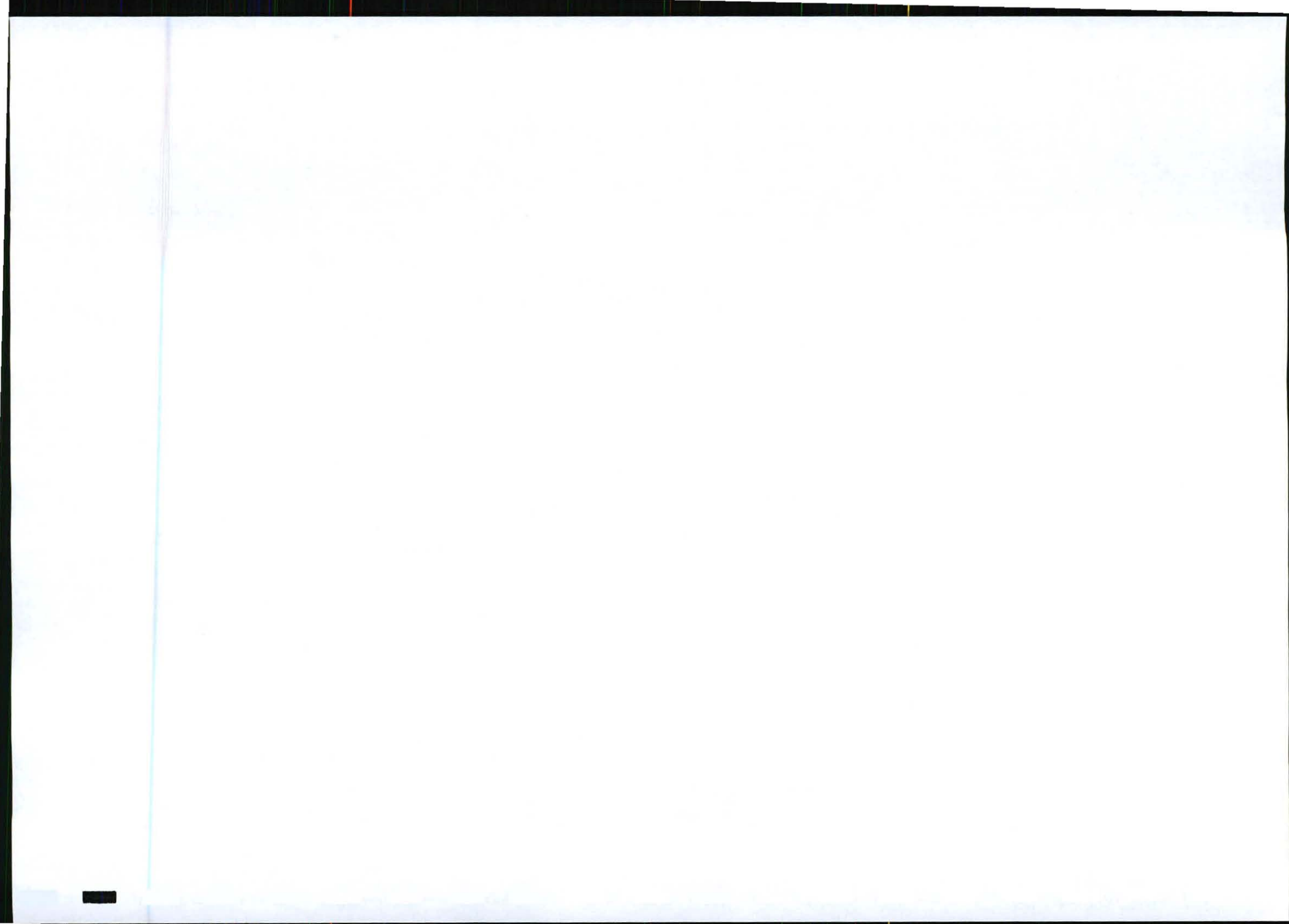
- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
 - Identification of the soil forms present on site
 - The size of the area where a particular soil form is found
 - GPS readings of soil survey points
 - The depth of the soil at each survey point
 - Soil colour
 - Limiting factors
 - Clay content
 - Slope of the site
 - A detailed map indicating the locality of the soil forms within the specified area,
 - Size of the site
- Exact locality of the site
- Current activities on the site, developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
- Access routes and the condition thereof
- Current status of the land (including erosion, vegetation and a degradation assessment)



SECTION F: APPENDICES

**Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province**

- Possible land use options for the site
- Water availability, source and quality (if available)
- Detailed descriptions of why agriculture should or should not be the land use of choice
- Impact of the change of land use on the surrounding area
- A shape file containing the soil forms and relevant attribute data as depicted on the map

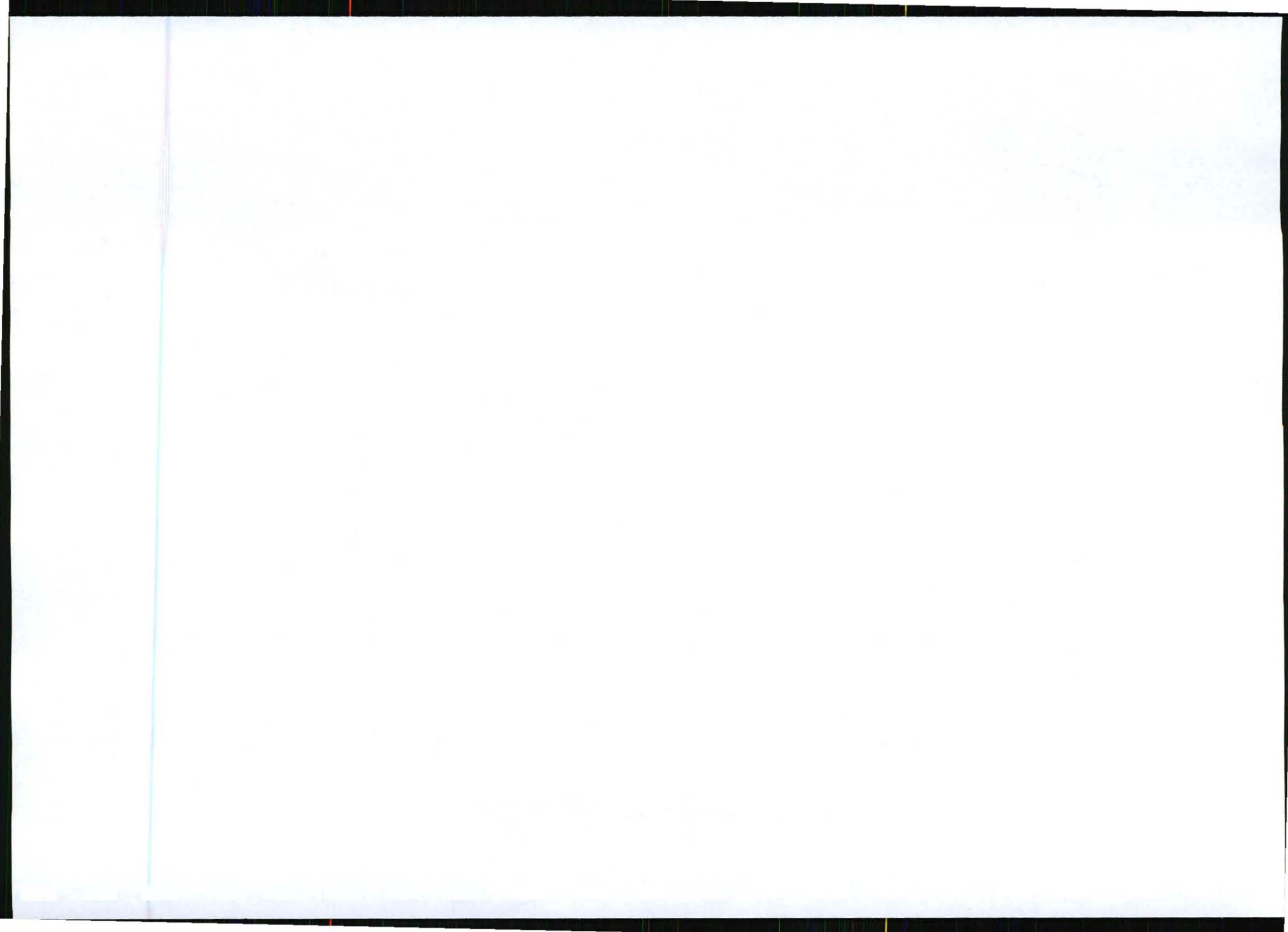


SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolairDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Appendix G.3 Letter from DEA acknowledging receipt of letter (Dated: 01/03/2012).

Next page/...



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447- PRETORIA - 0001- Fedsure Building - 315 Pretorius Street - PRETORIA
Tel (+ 27 12) 310 3911 - Fax (+ 2712) 322 2682

Reference: 14/12/16/3/3/1/455

Enquiries: Takalani Maswime

Tel: 012 310 3780 Fax: 012 320 7539 E-mail: tmaswime@environment.gov.za

Samantha Naidoo
CSIR Consulting and Analytical Services
PO Box 17001
CONGELLA
Durban
4013

Fax: 031 261 2509

PER FACSIMILE / MAIL

Dear Sir/Madam

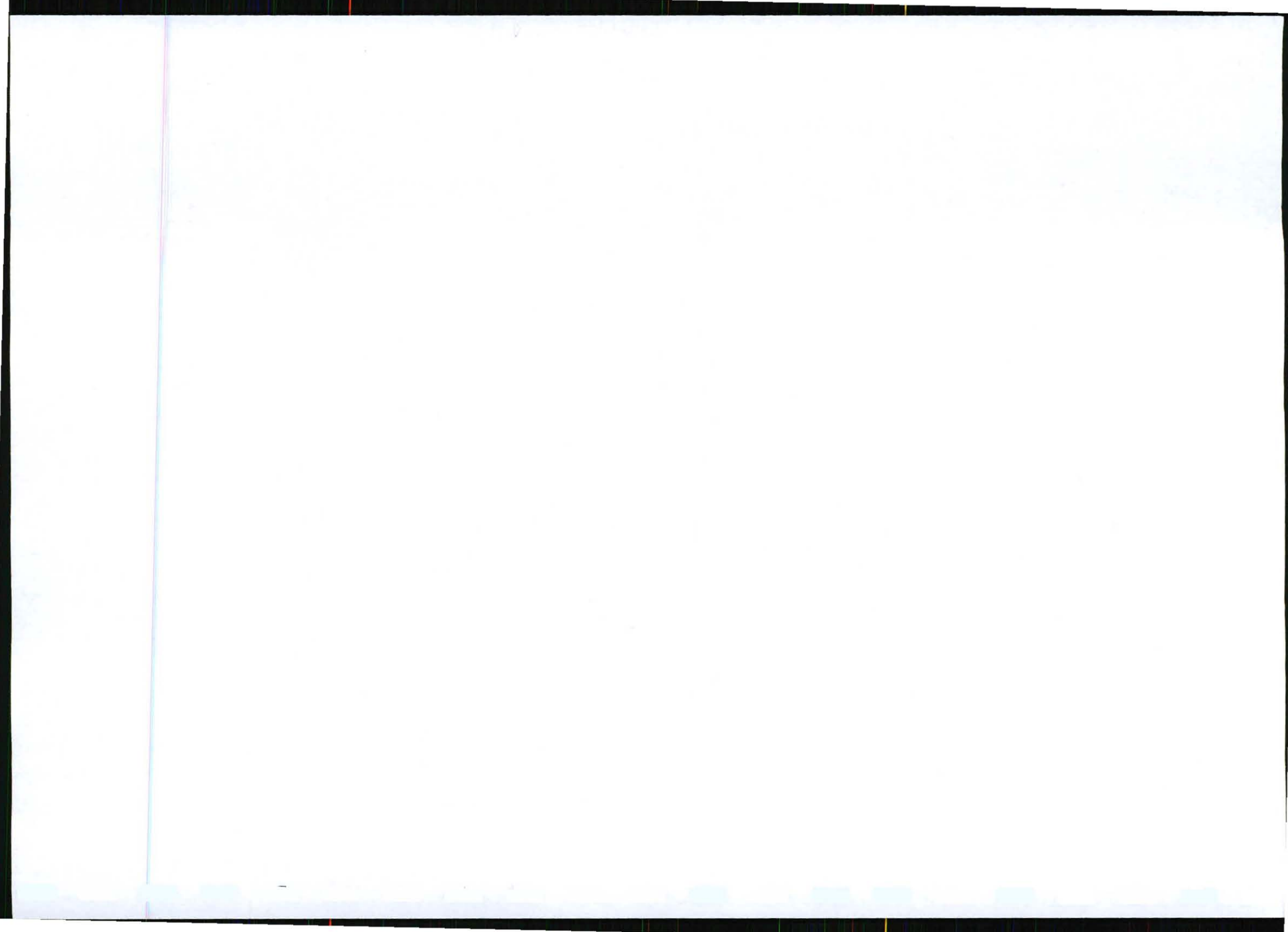
**RE: PROPOSED CONSTRUCTION, INSTALLATION AND OPERATION OF A 10MW PHOTOVOLTAIC
SOLAR POWER PROJECT (GLEN THORNE SOLAR PARK) ON GLEN THORNE FARM (NO. 2163) NEAR
BLOEMFONTEIN, FREE STATE PROVINCE**

Your letter dated 10 February 2012 and received by the Department on 15 February 2012 has reference.

The Department acknowledges receipt of the abovementioned letter.

Yours sincerely

Mr Ishaam Abader
Deputy Director-General: Environmental Quality and Protection
Department of Environmental Affairs
Letter signed by: Ms Mmatlala Rabothata
Designation: PEO: Environmental Impact Evaluation
Date: 01/03/2012



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Appendix G.4 Letter from SAHRA acknowledging receipt of the Application.

Next page/...



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



SOUTH AFRICAN HERITAGE RESOURCES AGENCY

111 HARRINGTON STREET, CAPE TOWN, 8000
PO BOX 4637, CAPE TOWN, 8000
TEL: (021) 462 4502 FAX: (021) 462 4509

DATE: 29 February 2012
ENQUIRIES: Mr Andrew Salomon
Archaeology, Palaeontology and Meteorite Unit
E-mail: asalomon@sahra.org.za
Web site: www.sahra.org.za

Our Ref: 9/2/302/0002

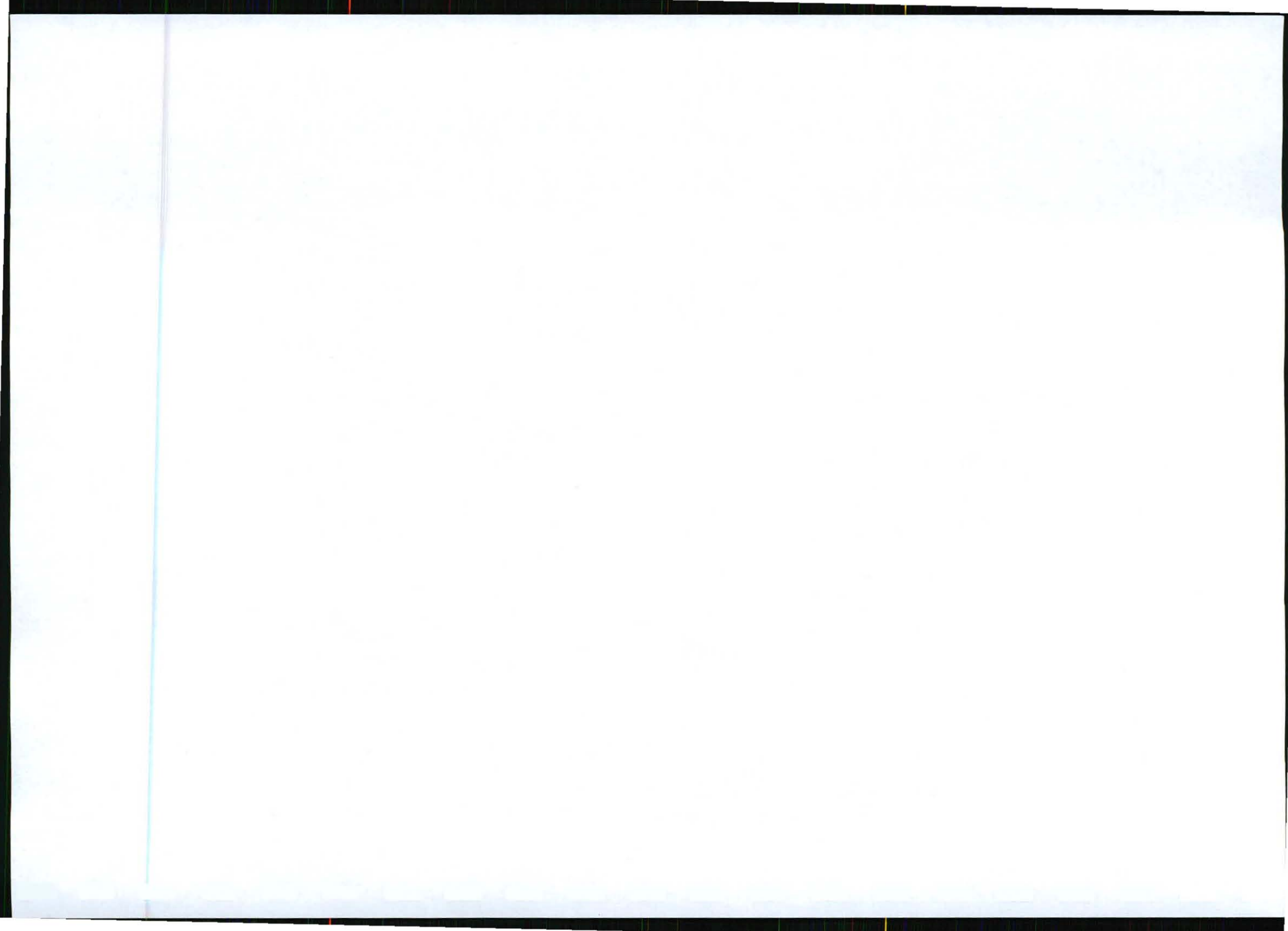
CSIR Consulting
Ms S Naidoo
snaidoo5@csir.co.za

RE:Glen Thorne Solar Park, DEA Ref: 14/12/16/3/3/1/455

Thank you for your indication that development is planned to take place in this area.

In terms of the National Heritage Resources Act, no 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. This means that before such sites are disturbed by development it is incumbent on the developer to ensure that a **Heritage Impact Assessment** is done. This must include the archaeological component (Phase 1) and any other applicable heritage components. Appropriate (Phase 2) mitigation, which involves recording, sampling and dating sites that are to be destroyed, must be done as required.

The quickest process to follow for the archaeological component is to contract an accredited specialist (see the web site of the Association of Southern African Professional Archaeologists www.asapa.org.za) to provide a Phase 1 Archaeological Impact Assessment Report. This must be done before any large development takes place.



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

The Phase 1 Impact Assessment Report will identify the archaeological sites and assess their significance. It should also make recommendations (as indicated in section 38) about the process to be followed. For example, there may need to be a mitigation phase (Phase 2) where the specialist will collect or excavate material and date the site. At the end of the process the heritage authority may give permission for destruction of the sites.

Where bedrock is to be affected, or where there are coastal sediments, or marine or river terraces and in potentially fossiliferous superficial deposits, a Palaeontological Desk Top study must be undertaken to assess whether or not the development will impact upon palaeontological resources - or at least a letter of exemption from a Palaeontologist is needed to indicate that this is unnecessary. If the area is deemed sensitive, a full Phase 1 Palaeontological Impact Assessment will be required and if necessary a Phase 2 rescue operation might be necessary.

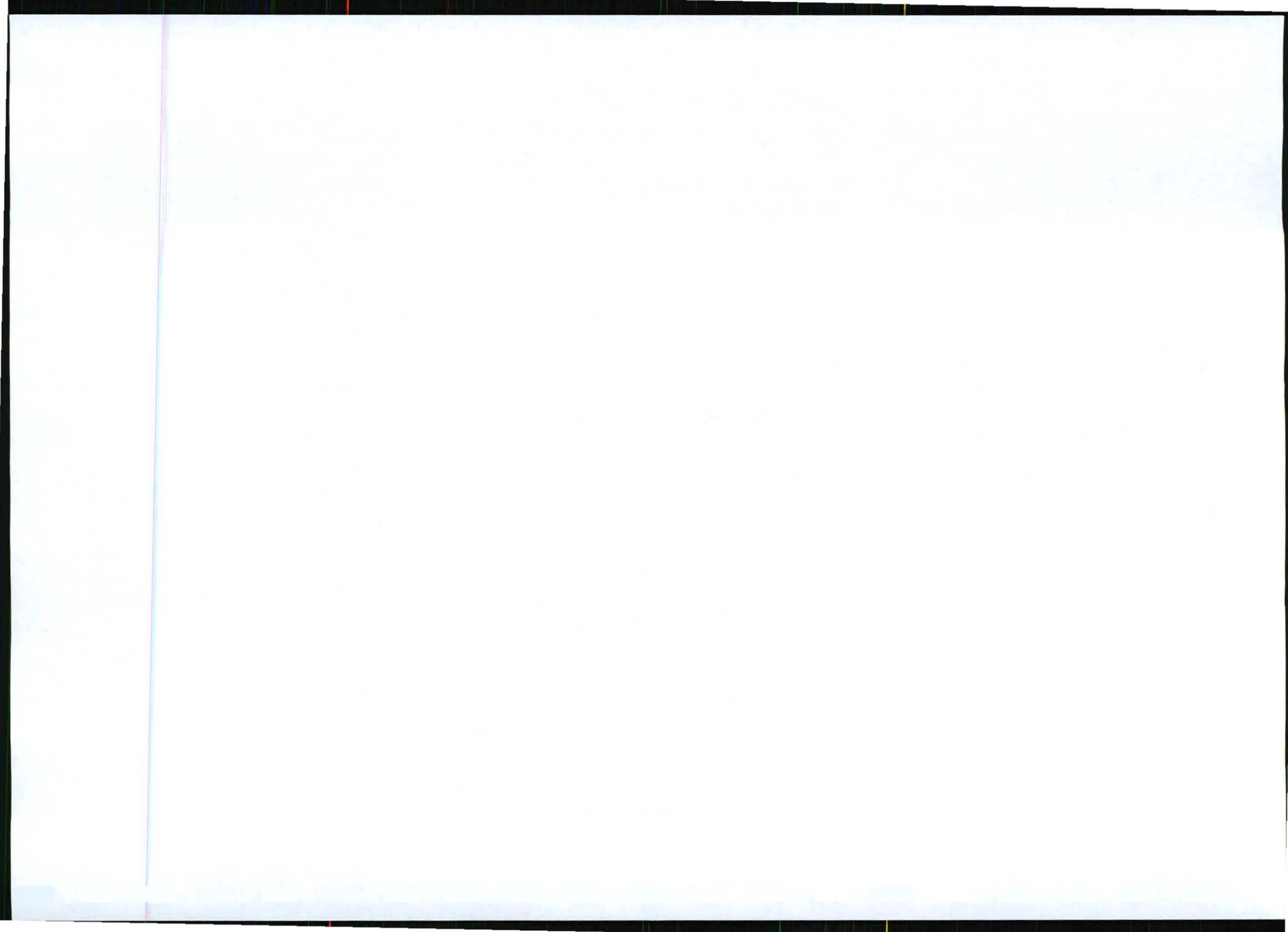
If the property is very small or disturbed and there is no significant site the heritage specialist may choose to send a letter to the heritage authority to indicate that there is no necessity for any further assessment.

Any other heritage resources that may be impacted such as built structures over 60 years old, sites of cultural significance associated with oral histories, burial grounds and graves, graves of victims of conflict, and cultural landscapes or viewscapes must also be assessed.

Yours sincerely



PP Colette Scheermeyer
SAHRA: Archaeology, Palaeontology and Meteorite Unit
For: CHIEF EXECUTIVE OFFICER

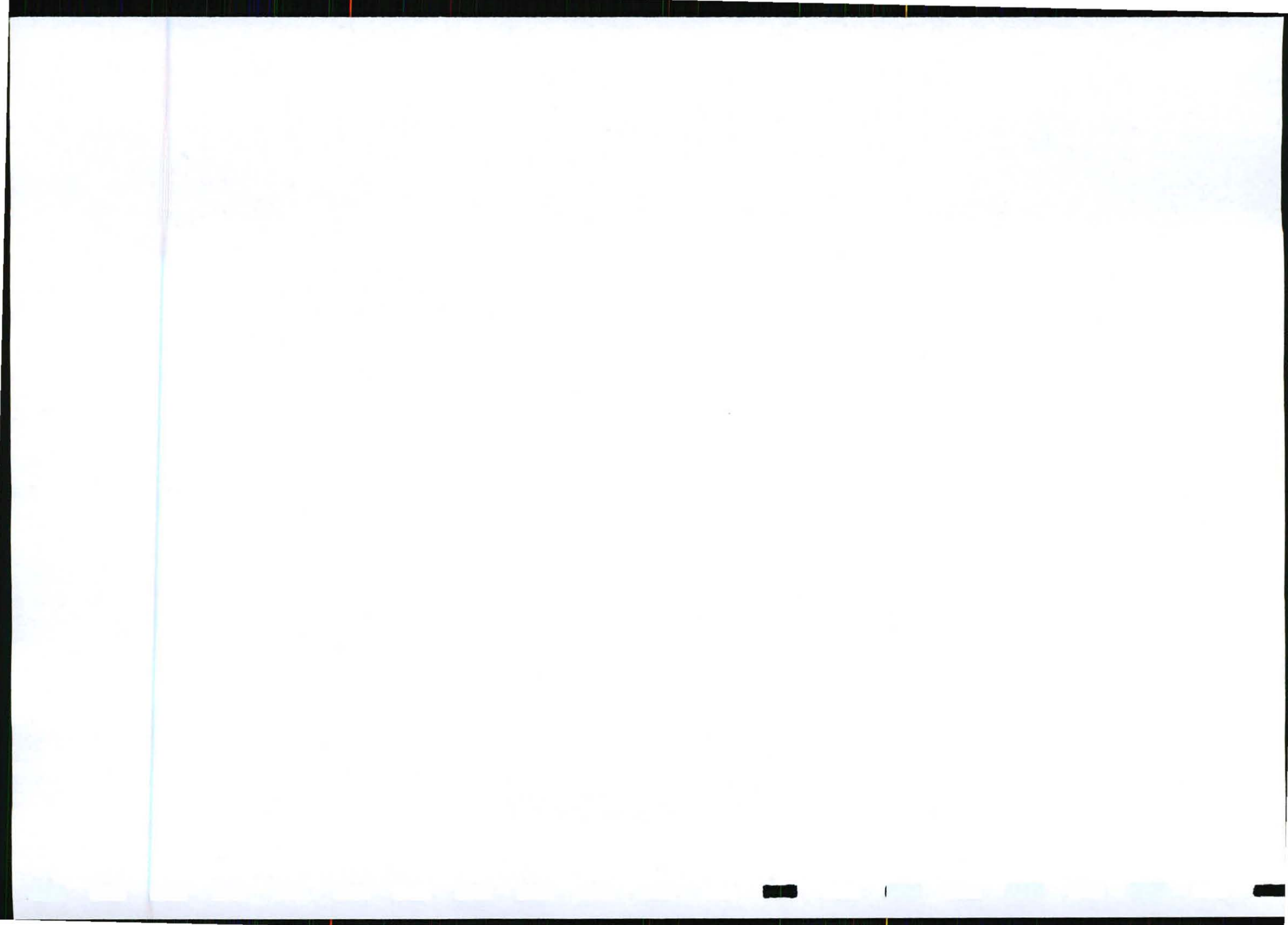


SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

**Appendix G.5 Letter from the Free State Heritage Resources Authority
acknowledging receipt of Notice of Basic Assessment process.**

Next page/...



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

From: "Loudine Philip" <loudine.philip@nasmus.co.za>
To: SNaidoo5@csir.co.za
CC: malintjam@sacr.fs.gov.za
Date: 06/03/2012 10:29
Subject: DEA Reference Number: 14/12/16/3/3/1/455; 14/12/16/3/3/1/456; & 14/12/16/3/3/1/470 [NIDs]

Dear Ms Naidoo

The Free State Provincial Heritage Resources Authority (Free State Heritage) acknowledges receipt of the following three Notices with the Intend to Develop (NIDs) from the CSIR, being:

DEA Reference Number: 14/12/16/3/3/1/455; 14/12/16/3/3/1/456; & 14/12/16/3/3/1/470

Please note that Free State Heritage is a formal authority that you are by law required to consult should any development trigger the National Heritage Resources Act, no 25 of 1999. As such we therefore do NOT have to register as an A&P and should automatically be on your recipient and commentary lists for any development in the Free State. Please be so kind as to have this formally noted.

In this regard we refer you to Section 38(8) of the National Heritage Resources Act, no 25 of 1999:

(8) The provisions of this section do not apply to a development as described in subsection (1) if an evaluation of the impact of such development on heritage resources is required in terms of the Environment Conservation Act, 1989 (Act No. 73 of 1989), or the integrated environmental management guidelines issued by the Department of Environment Affairs and Tourism, or the Minerals Act, 1991 (Act No. 50 of 1991), or any other legislation: Provided that the consenting authority must ensure that the evaluation fulfils the requirements of the relevant heritage resources authority in terms of subsection (3), and any comments and recommendations of the relevant heritage resources authority with regard to such development have been taken into account prior to the granting of the consent.

With regard to the above-mentioned three Solar Power Projects we notice that all three have already had specialist impact assessments done. In order for us to be able to provide our comments and recommendations on this we would require of you to make these reports available to us. As a rule we require ALL specialist reports to be included as so-called non-relevant (i.e. not heritage related) reports could sometimes impact the decision on heritage related issues.

Should you have any further queries, please do not hesitate to contact us.

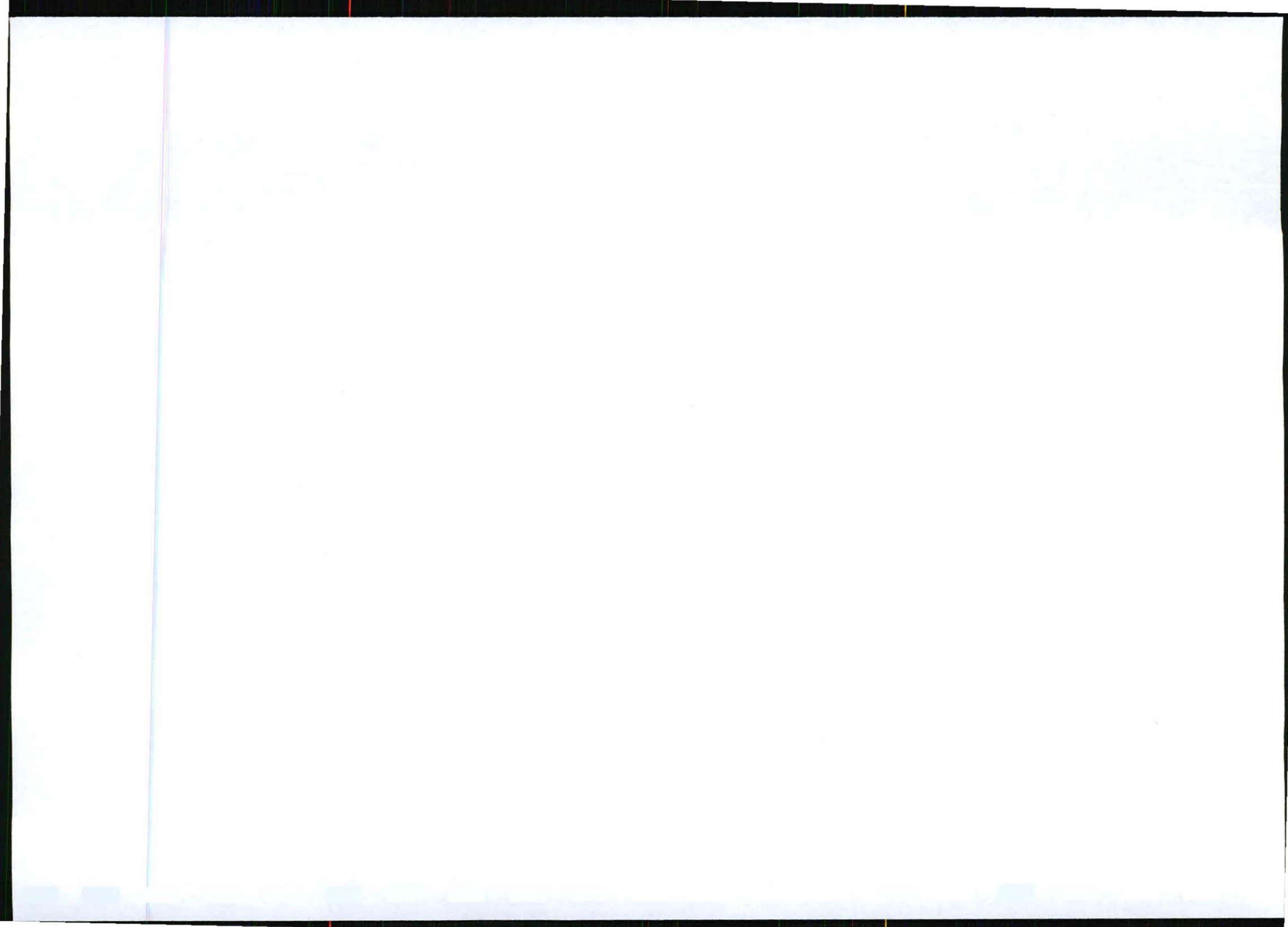
Sincerely

Loudine Philip
member HERITAGE FREE STATE : PERMIT COMMITTEE

Cell 078 448 9307

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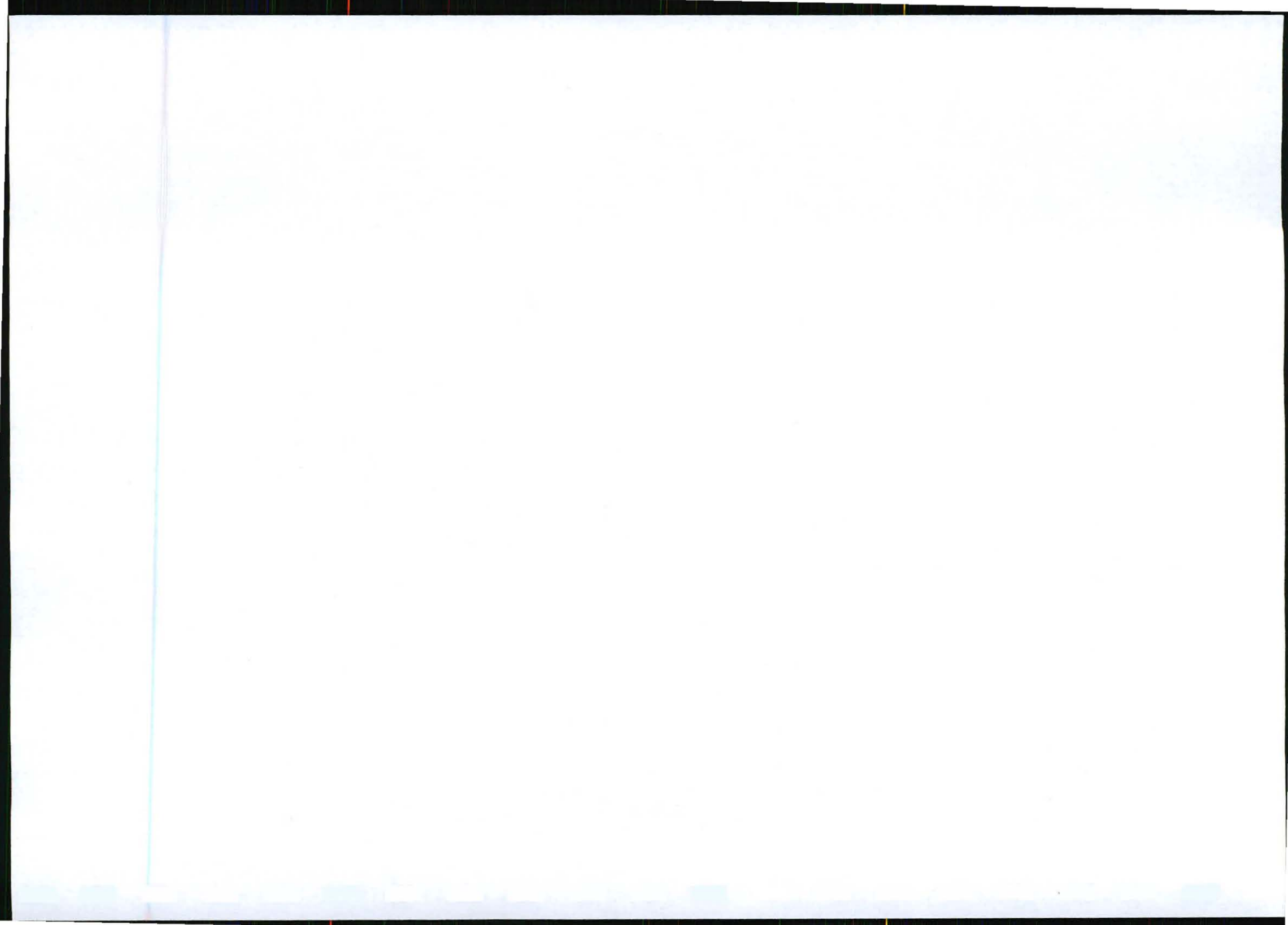


SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Appendix G.6 Correspondence between the CSIR and the Free State Heritage Resource Authority.

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SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

From: Samantha Naidoo
To: Loudine Philip
CC: Ntando Mbatha
Date: 07/03/2012 16:29
Subject: Re: Valleydora Solar Power Project - Heritage Study Report
Attachments: VIA Proposal Valleydora - MetroGIS.doc; GlenThorne_Draft_VIA_Scoping_Report.pdf

Dear Loudine

Please see attached the Visual Impact Assessment Reports for the Glen Thorne and Valleydora Solar Power Projects. We have not carried out a visual impact study for the Reddersburg Basic Assessment project.

Please feel free to contact me should you have any queries/comments.
Regards,
Samantha

Samantha Naidoo

Environmental Management Services (EMS)

CSIR Consulting and Analytical Services
PO Box 17001
Congella
4013

Tel: (031) 242 2397
Fax: (031) 261 2509
Email: snaidoo5@csir.co.za

>>> "Loudine Philip" <loudine.philip@nasmus.co.za> 07/03/2012 16:05 >>>
Dear Samantha

Ntando has asked me to let you know the scope of the palaeontological reports required. Look at the one that was done for the Reddersburg Solar Park (14/12/16/3/3/1/470) as it is a perfect example of not only what should be done but how it should be done. [That was one of the three reports you sent me.]

Someone else from the CSIR has enquired about contact details for palaeontologists and I have provided the name of two in the Free State who work specifically on the quaternary period. The person who wrote the above-mentioned report is one of them. Palaeontologists are highly specialised professionals and normally know their own backyards back to front which is why we prefer to get specialists reports from professionals based in the Free State when possible.

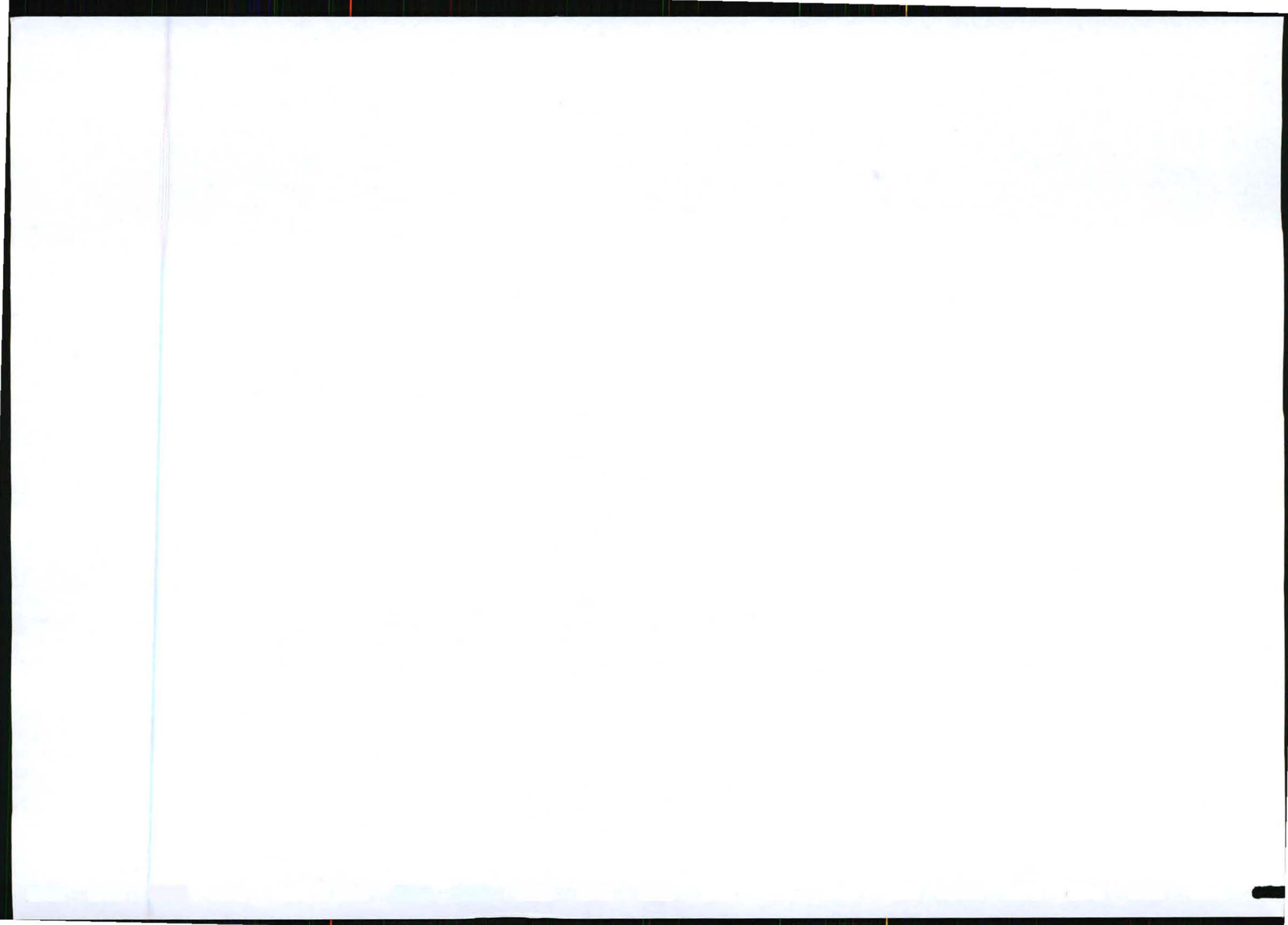
Kindly also remember to send us the Visual Impact Assessment reports of each project as requested earlier (and kindly copy Ntando on that as she can distribute it to the rest of the committee).

regards
Loudine

----- Original Message -----

From: Samantha Naidoo (mailto:SNaidoo5@csir.co.za)
To: loudine.philip@nasmus.co.za
Cc: Maintyja Molahloe (mailto:maintyjam@sacr.fs.gov.za)
Sent: Wednesday, March 07, 2012 10:37 AM
Subject: Re: Valleydora Solar Power Project - Heritage Study Report

Hi Loudine



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Please find attached the Word version of the Heritage Specialist Report for the Valleydora Solar Power Project.

Regards,
Samantha

Samantha Naidoo

Environmental Management Services (EMS)

CSIR Consulting and Analytical Services
PO Box 17001
Congella
4013

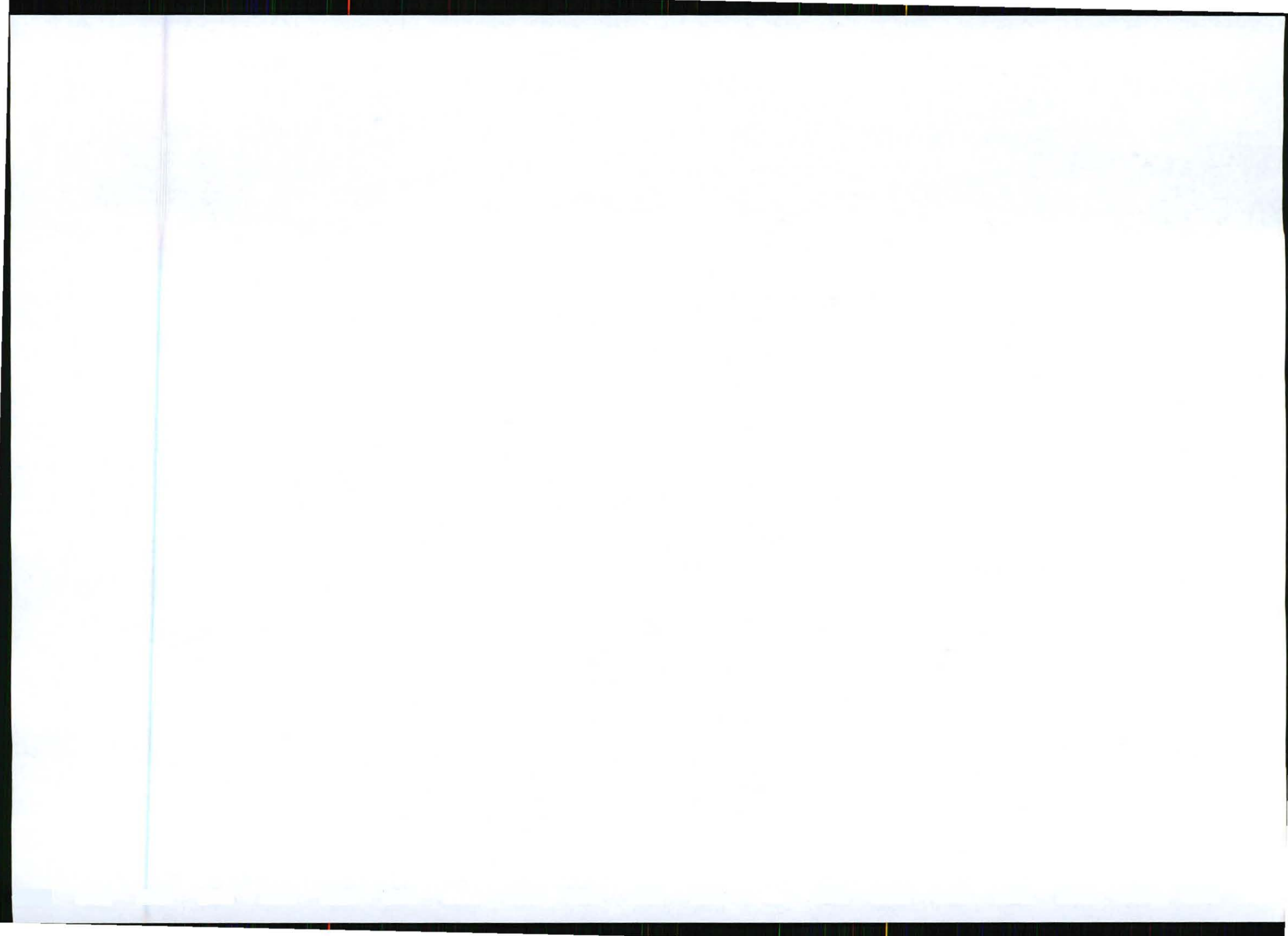
Tel: (031) 242 2397
Fax: (031) 261 2509
Email: snaidoo5@csir.co.za

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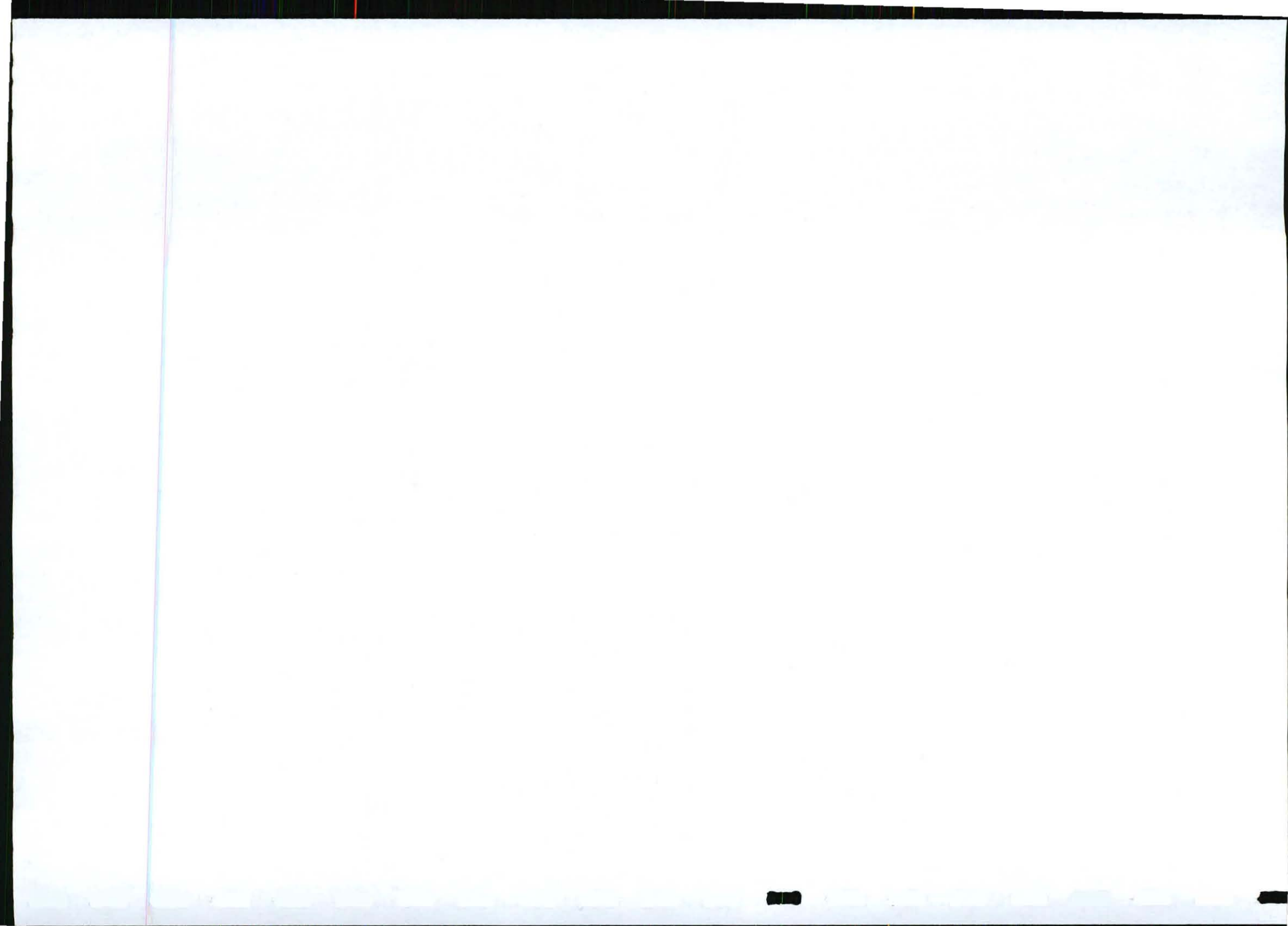


SECTION F: APPENDICES

**Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province**

Appendix G.7 Correspondence between the CSIR and the Civil Aviation Authority.

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Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

From: Samantha Naidoo
To: Christopher Isherwood
Date: 22/02/2012 15:28
Subject: Re: CAA Approval: Proposed Valleydora SP and Glen Thorne SP
Attachments: Valleydora Proposed Site Layout 24 Jan 2012.kmz; Glen Thorne.kmz

Hi Christopher

Sorry for the late response. I was out of office on a site visit for the past few days.

With regard to the Glen Thorne and Valleydora projects, the maximum height of any structure on-site would be 13m. Please see the attached kmz files for the respective projects.

Please feel free to contact me should you have any queries/comments.

Thanks and regards,
Samantha

Samantha Naidoo

Environmental Management Services (EMS)

CSIR Consulting and Analytical Services
PO Box 17001
Congella
4013

Tel: (031) 242 2397
Fax: (031) 261 2509
Email: snaidoo5@csir.co.za

>>> "Christopher Isherwood" <IsherwoodC@caa.co.za> 16/02/2012 12:23 >>>

Hi Samantha,
For the CAA to evaluate the proposed projects, I will need the Lat/Long (referenced to WGS84 datum) coordinates of the footprint of the PV facilities, or **preferably** a .kmz file, with an indication of the maximum height of any structure on the site.
Regards,

Chris Isherwood
Aviation Obstacle Inspector
Air Navigation Services

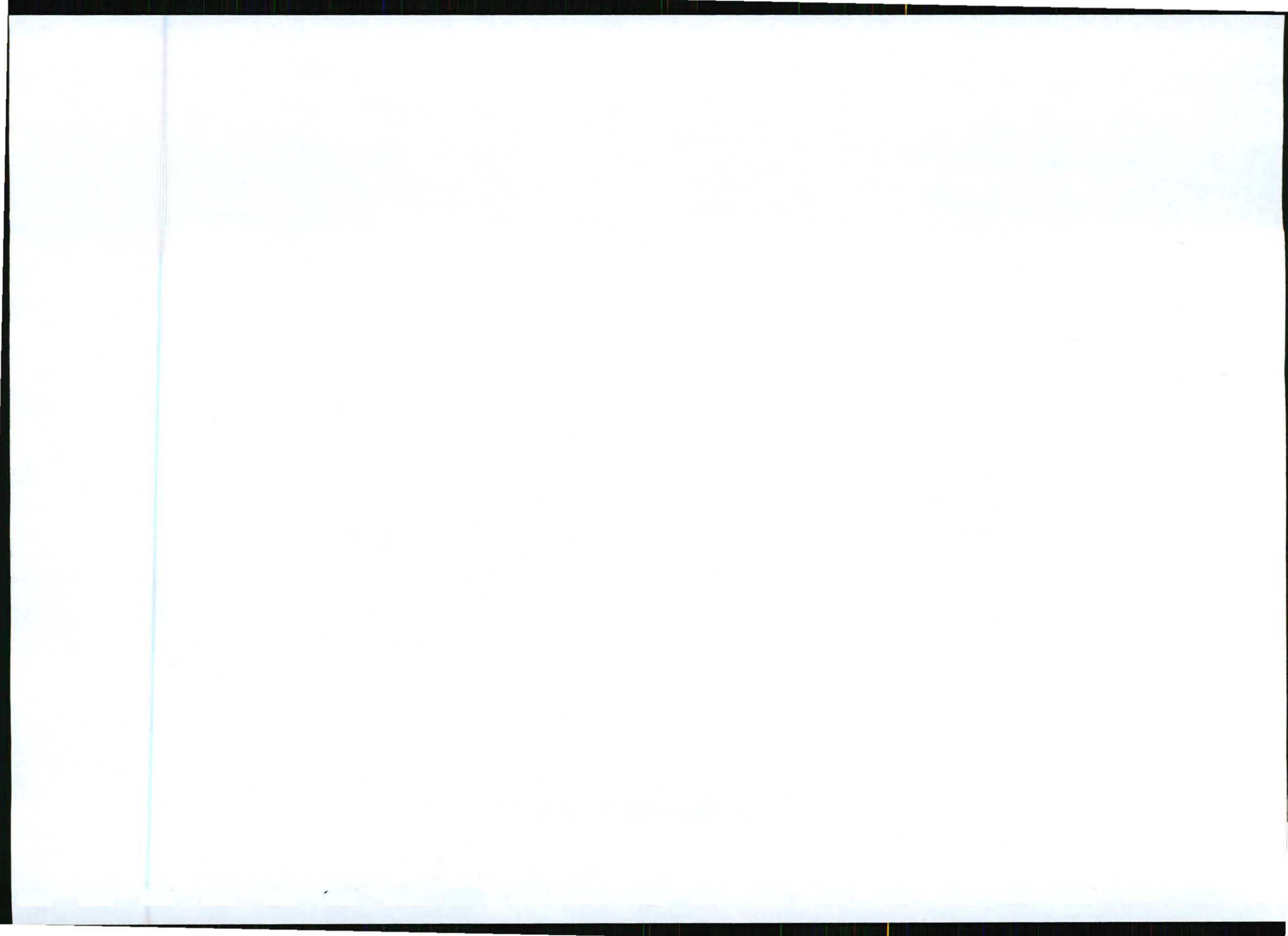
Tel: 011 545 1490 | **Fax:** 011 545 1262 | **Cell:** 082 823 8436 | **Email:** isherwoodC@caa.co.za | www.caa.co.za



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

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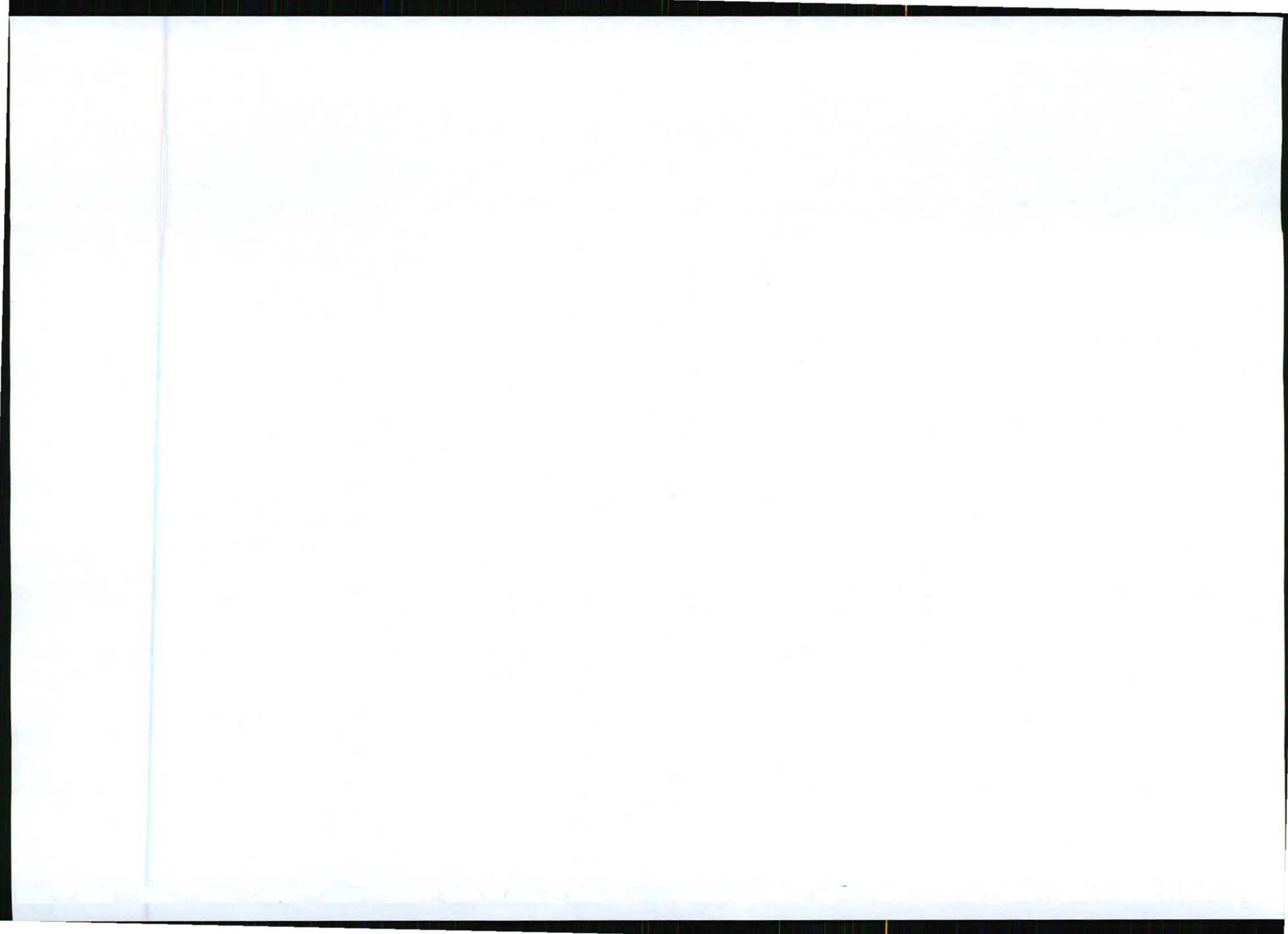


SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Appendix G.8 Specialist Declaration of Interest Forms.

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SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

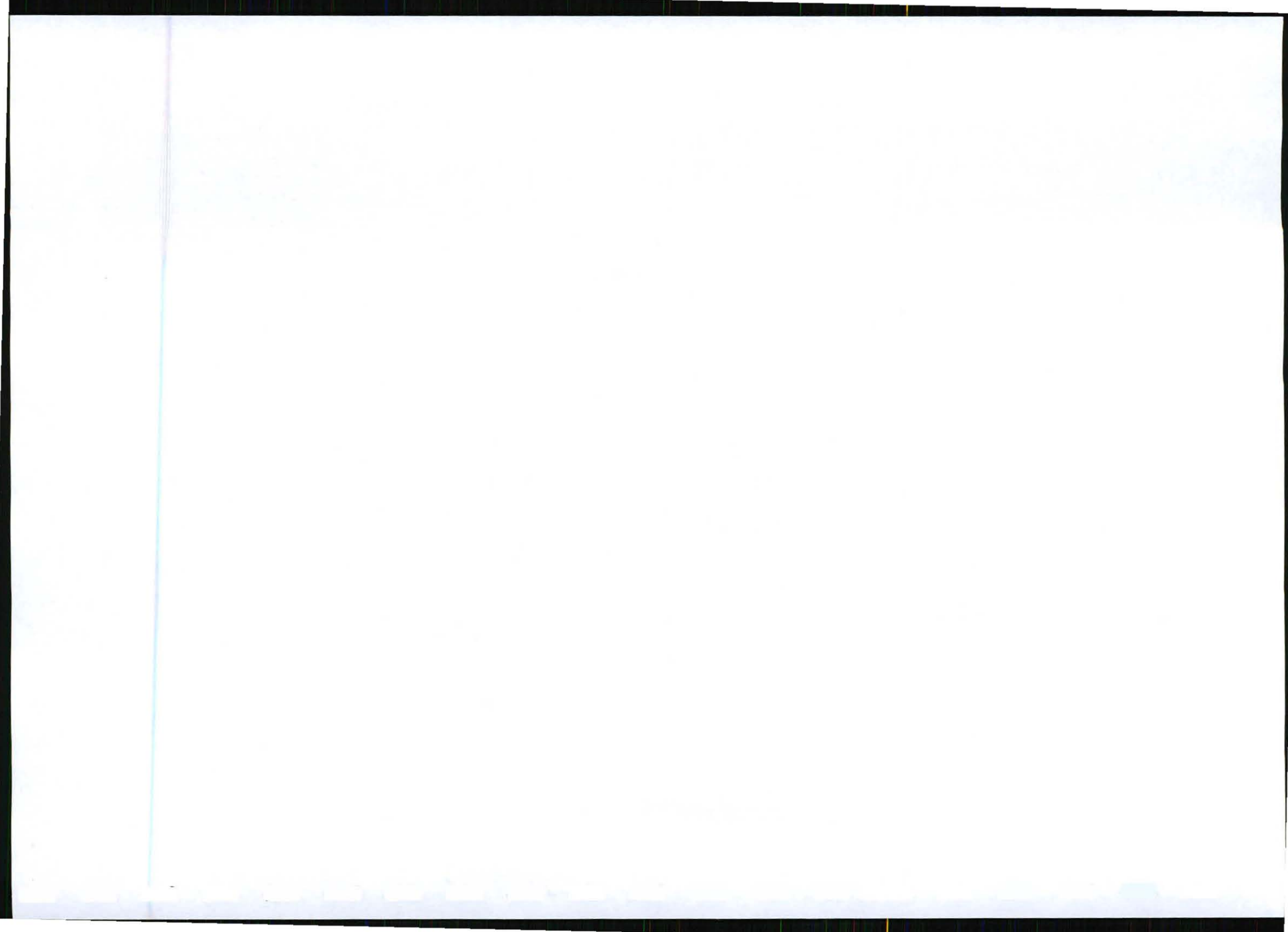
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NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Solaire Direct Glen Thorne Solar Photovoltaic Facility of 10MW near Bloemfontein, Free State

Specialist:	The Roodt Partnership		
Contact person:	Anton Roodt		
Postal address:	PO Box 28278 Danhof		
Postal code:	9310	Cell:	
Telephone:	+27 51 406 2100	Fax:	+27 86 684 2220
E-mail:	roodt@afrika.co.za		
Professional affiliation(s) (if any)	SACAP 3061		
Project Consultant:	CSIR		
Contact person:	Samantha Naidoo		
Postal address:	PO Box 17001 Congella South Africa		
Postal code:	4013	Cell:	
Telephone:	+27 31 242 2397	Fax:	+27 31 261 2509
E-mail:	snaidoo5@csir.co.za		



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4.2 The specialist appointed in terms of the Regulations_

I, _____, declare that –

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.



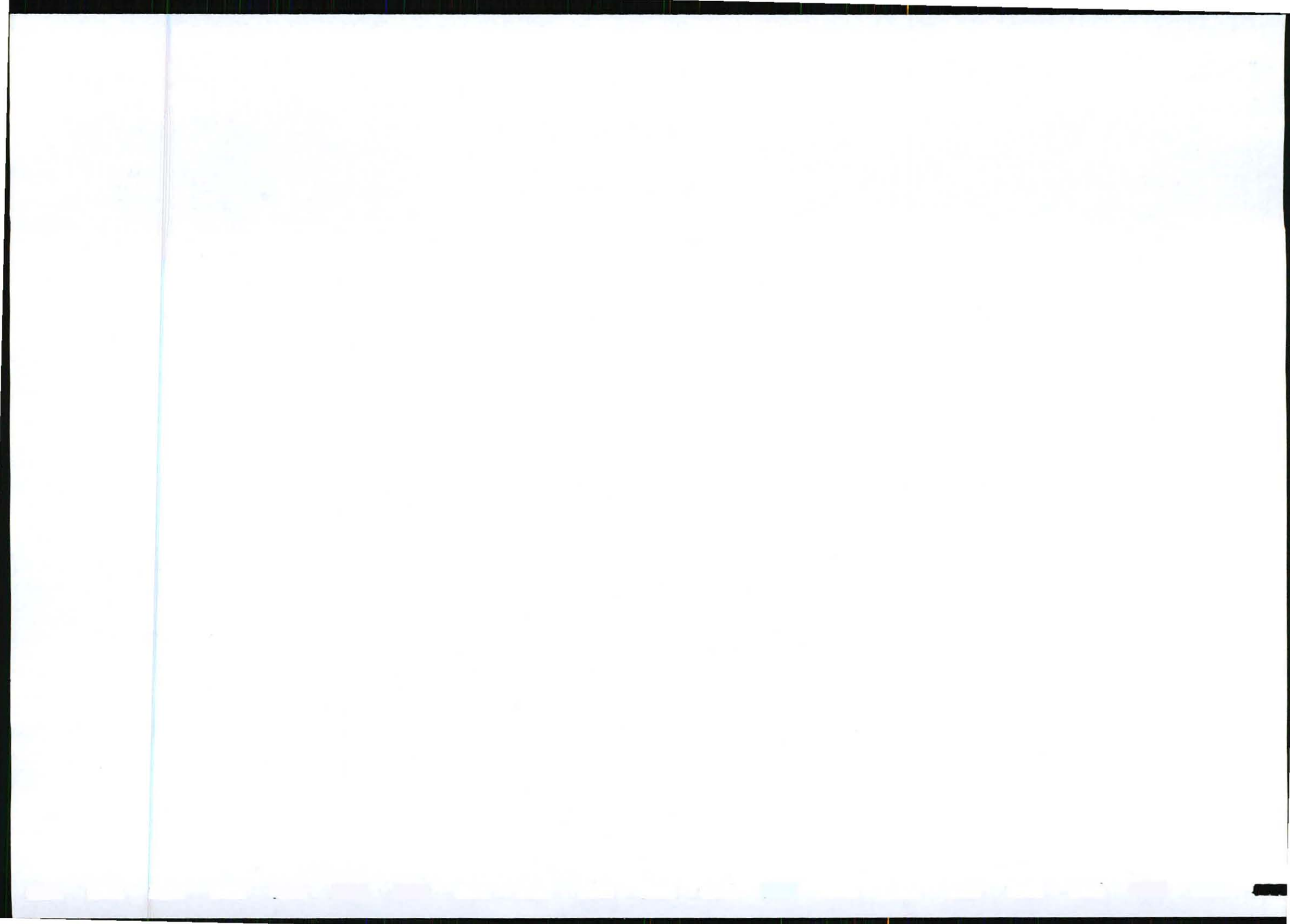
Signature of the specialist:

ROOBT PARTNERSHIP

Name of company (if applicable):

07-02-2012.

Date:



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

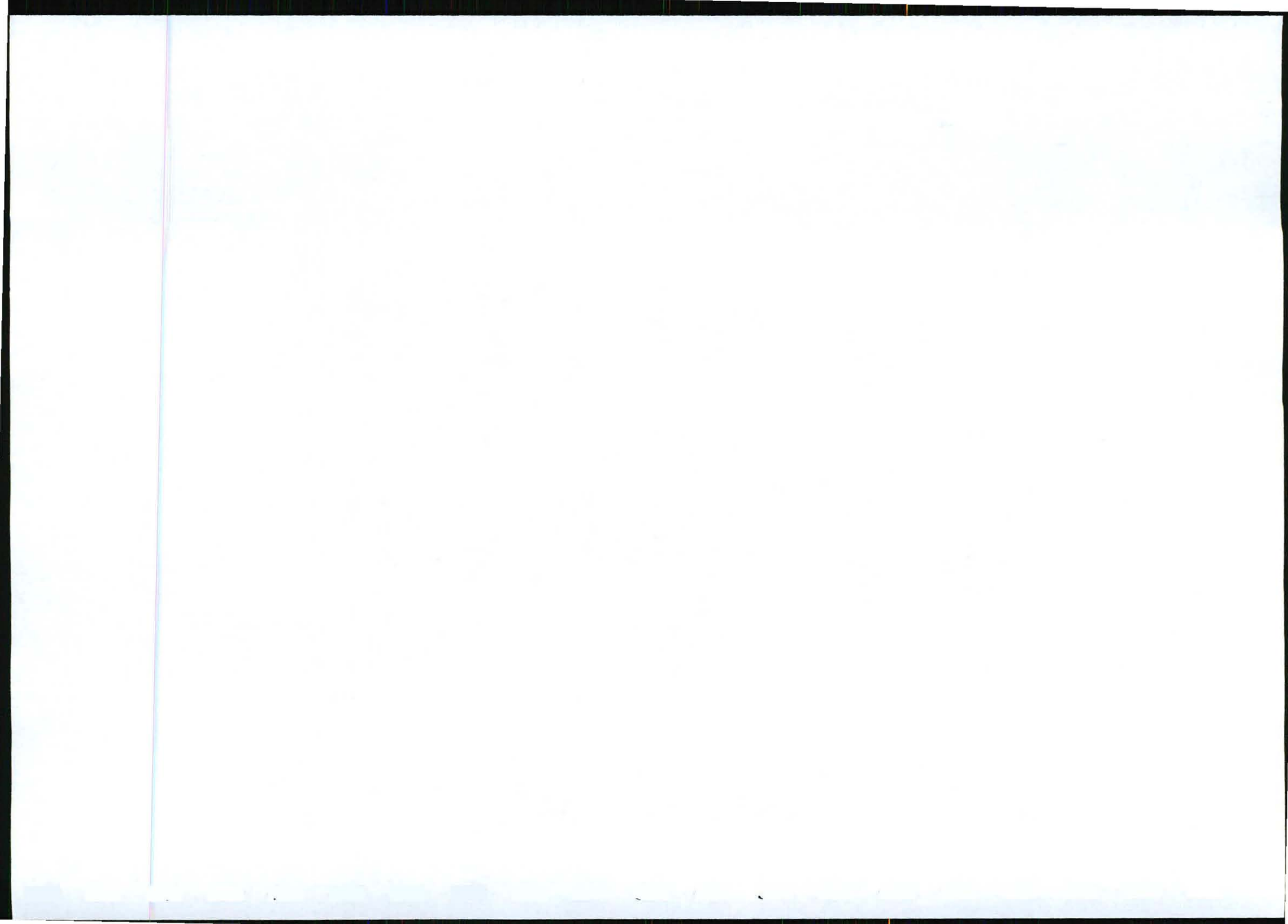
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NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Solaire Direct Glen Thorne Solar Photovoltaic Facility of 10MW near Bloemfontein, Free State
--

Specialist:	Metro GIS		
Contact person:	Dawie Jansen van Vuuren		
Postal address:	PO Box 384 La Montagne		
Postal code:	0184	Cell:	
Telephone:	012 349 2884 /5	Fax:	012 349 2880
E-mail:	dawie@metrogis.co.za		
Professional affiliation(s) (if any)	Professional Geo-Information Sciences (GISc) Practitioner registered with The South African Council for Professional and Technical Surveyors (PLATO). Membership number: PGP0101		
Project Consultant:	CSIR		
Contact person:	Samantha Naidoo		
Postal address:	PO Box 17001 Congella South Africa		
Postal code:	4013	Cell:	
Telephone:	+27 31 242 2397	Fax:	+27 31 261 2509
E-mail:	snaidoo5@csir.co.za		



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4.2 The specialist appointed in terms of the Regulations_

I, Dawid Jansen van Vuuren, declare that -

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.



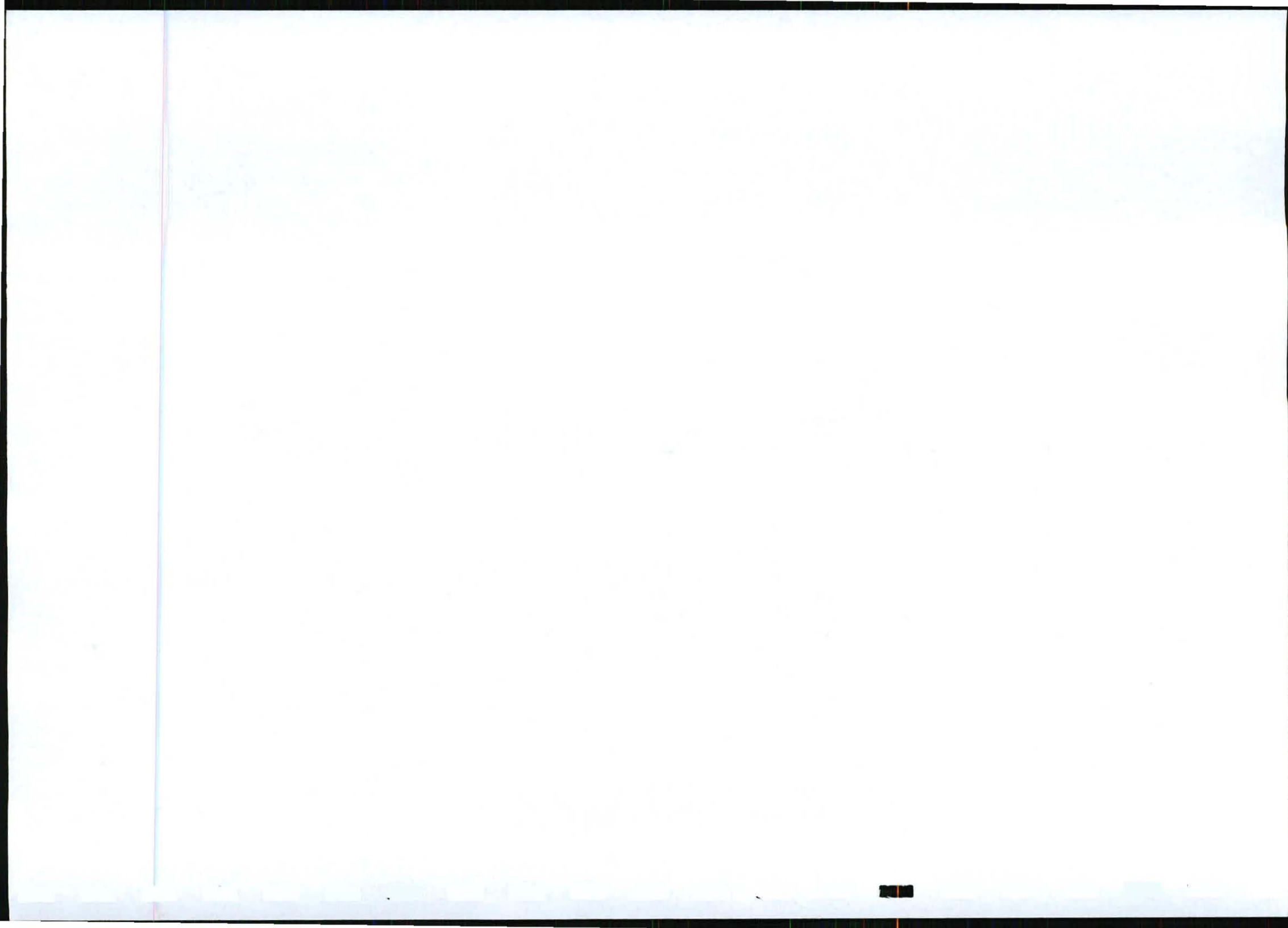
Signature of the specialist:

MetroGIS (Pty)Ltd

Name of company (if applicable):

16 February 2012

Date:



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

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DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

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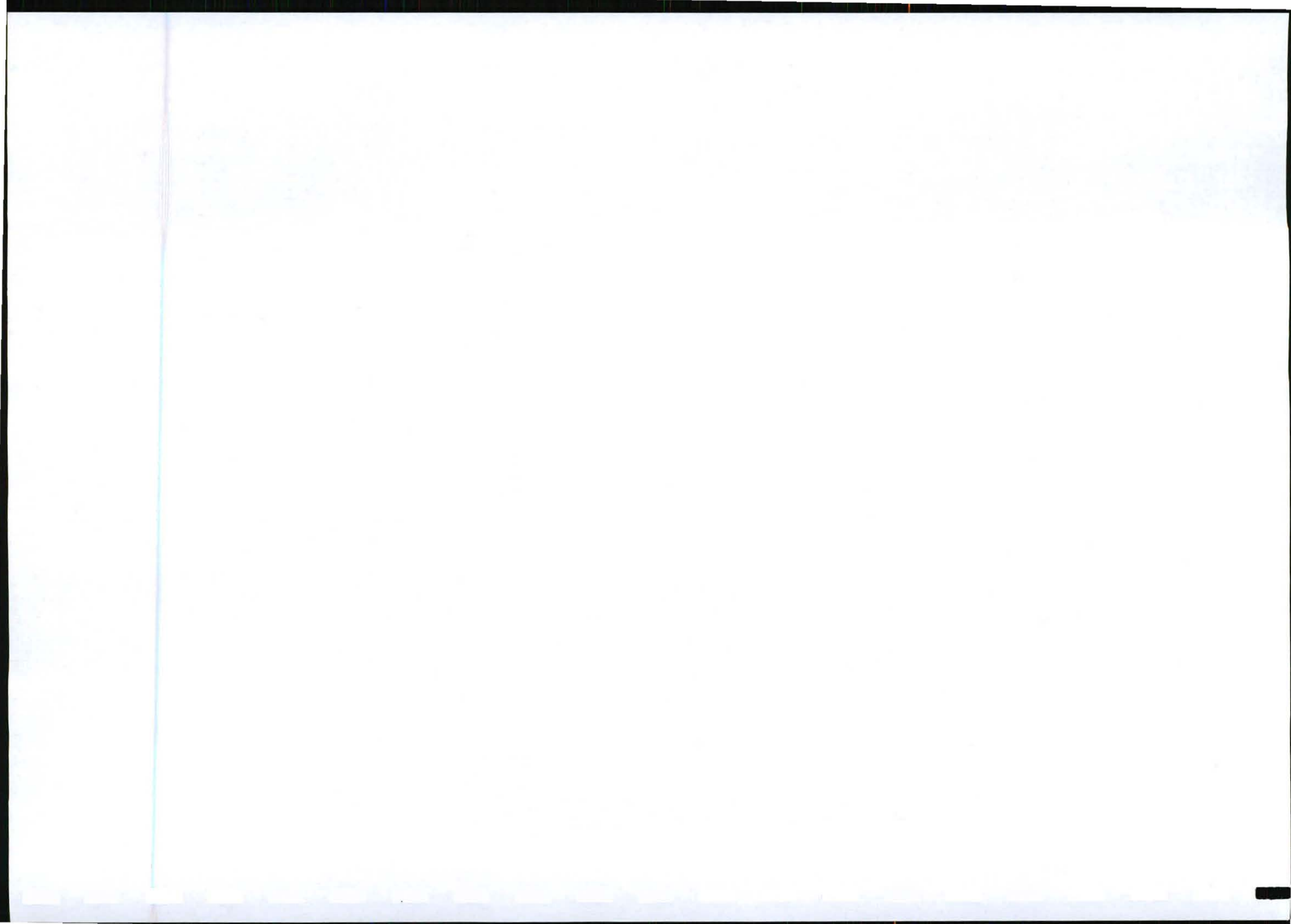
Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Solaire Direct Glen Thorne Solar Photovoltaic Facility of 10MW near Bloemfontein, Free State
--

Specialist:	ECOSOL - GIS		
Contact person:	Andrew Skowno		
Postal address:	21 Neapolis Pier Street South End Port Elizabeth		
Postal code:	6001	Cell:	+27 82 77 44613
Telephone:	+27 41 582 1872	Fax:	+27 86 604 4670
E-mail:	drew@sa.wild.org		
Professional affiliation(s) (if any)			

Project Consultant:	CSIR		
Contact person:	Samantha Naidoo		
Postal address:	PO Box 17001 Congella South Africa		
Postal code:	4013	Cell:	
Telephone:	+27 31 242 2397	Fax:	+27 31 261 2509
E-mail:	snaidoo5@csir.co.za		



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4.2 The specialist appointed in terms of the Regulations

I, ANDREW SKOWNO, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.



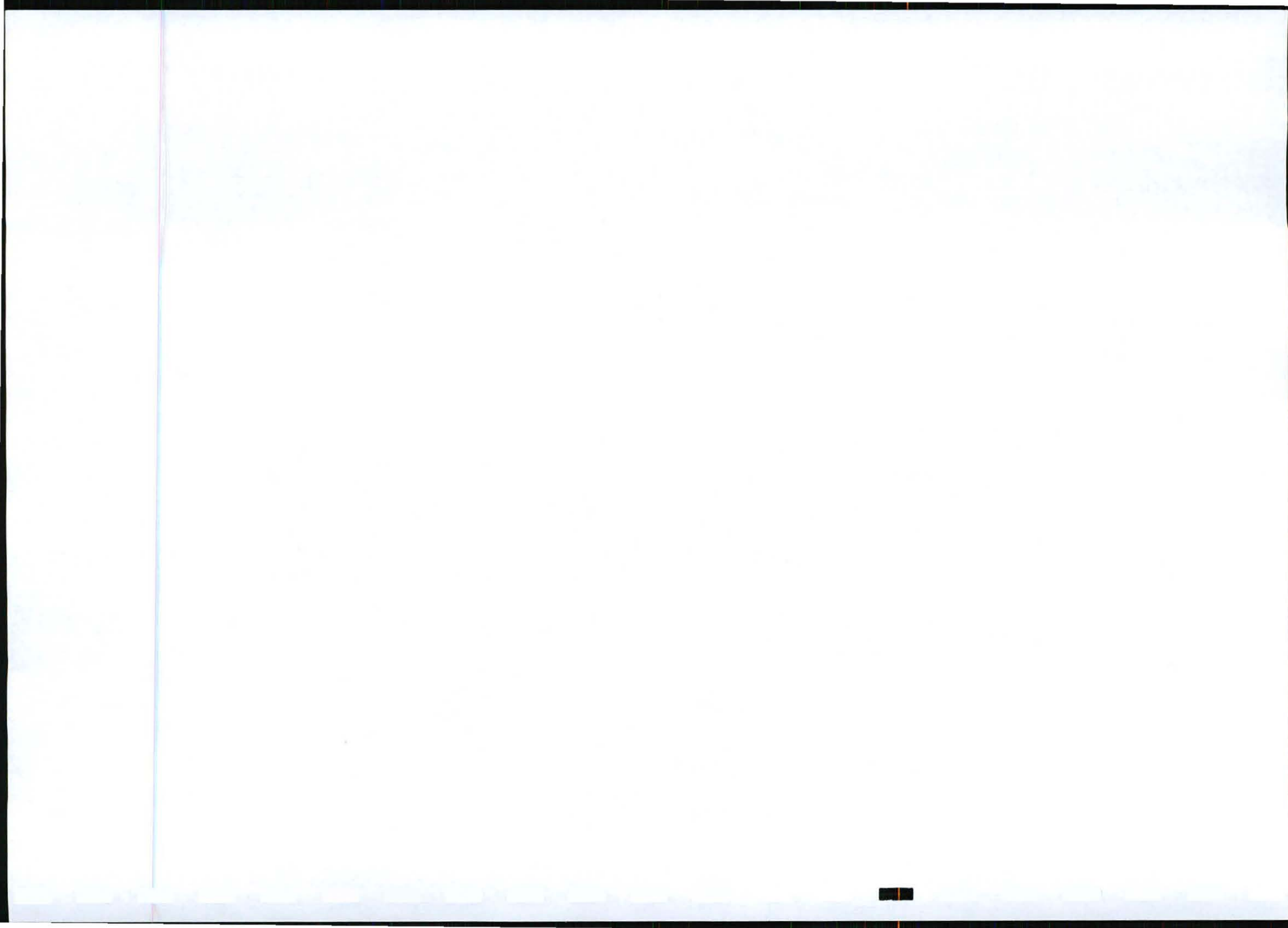
Signature of the specialist:

ECOSOL GIS (shelve wizard 75)

Name of company (if applicable):

3/2/2012

Date:



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

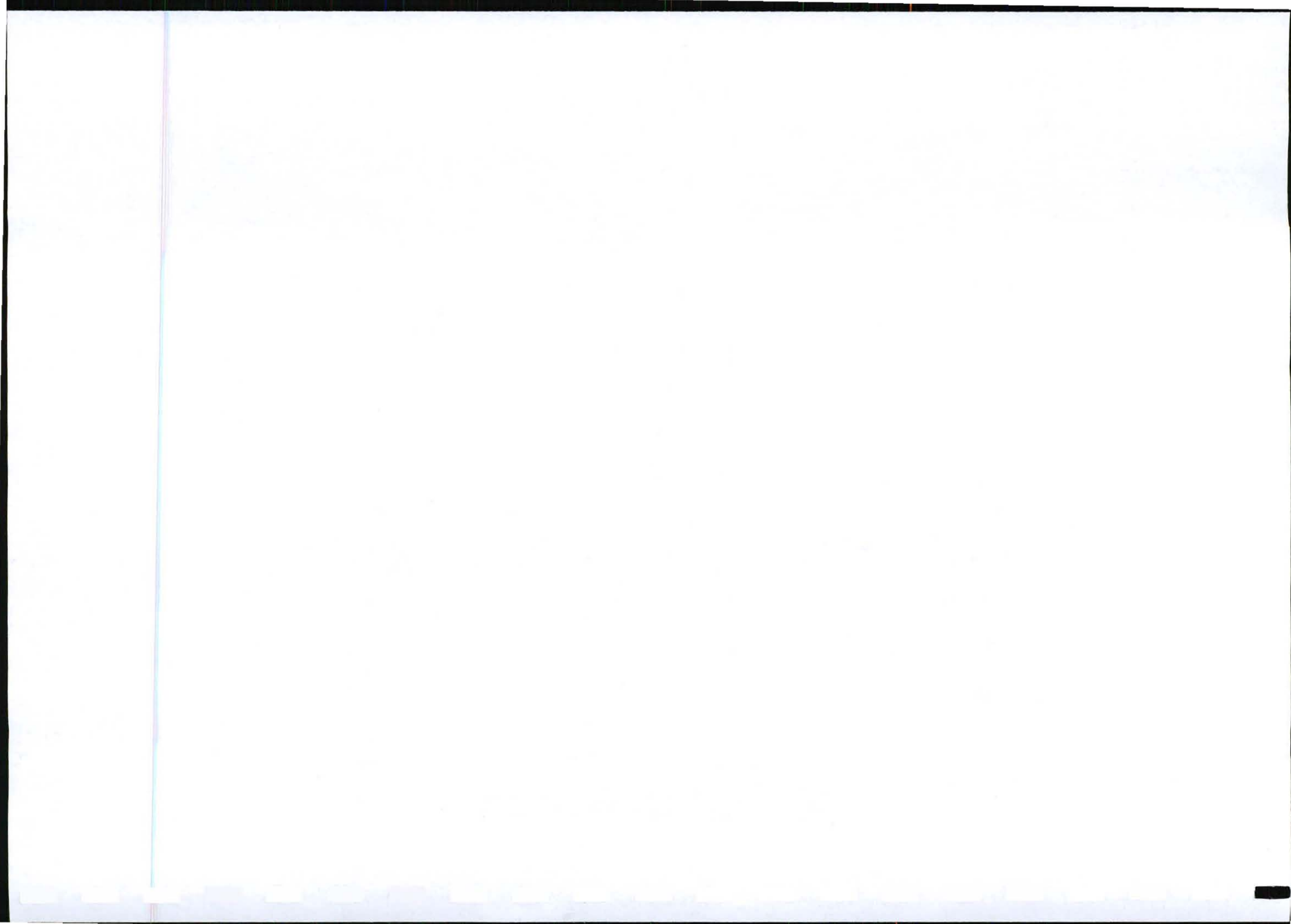
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NEAS Reference Number:	DEAT/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Solaire Direct Glen Thorne Solar Photovoltaic Facility of 10MW near Bloemfontein, Free State

Specialist:	Soil, Crop and Climate Sciences Faculty of Natural and Agricultural Sciences University of the Free State		
Contact person:	Dr. P. A. Le Roux		
Postal address:	PO Box 339 Bloemfontein		
Postal code:	9300	Cell:	+27 82 883 9968
Telephone:	+27 51 401 2386	Fax:	+27 866458792
E-mail:	lerouxpa@ufs.ac.za		
Professional affiliation(s) (if any)			
Project Consultant:	CSIR		
Contact person:	Samantha Naidoo		
Postal address:	PO Box 17001 Congella South Africa		
Postal code:	4013	Cell:	
Telephone:	+27 31 242 2397	Fax:	+27 31 261 2509
E-mail:	snaidoo5@csir.co.za		



SECTION F: APPENDICES


Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4.2 The specialist appointed in terms of the Regulations

I, Pieter le Roux, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.



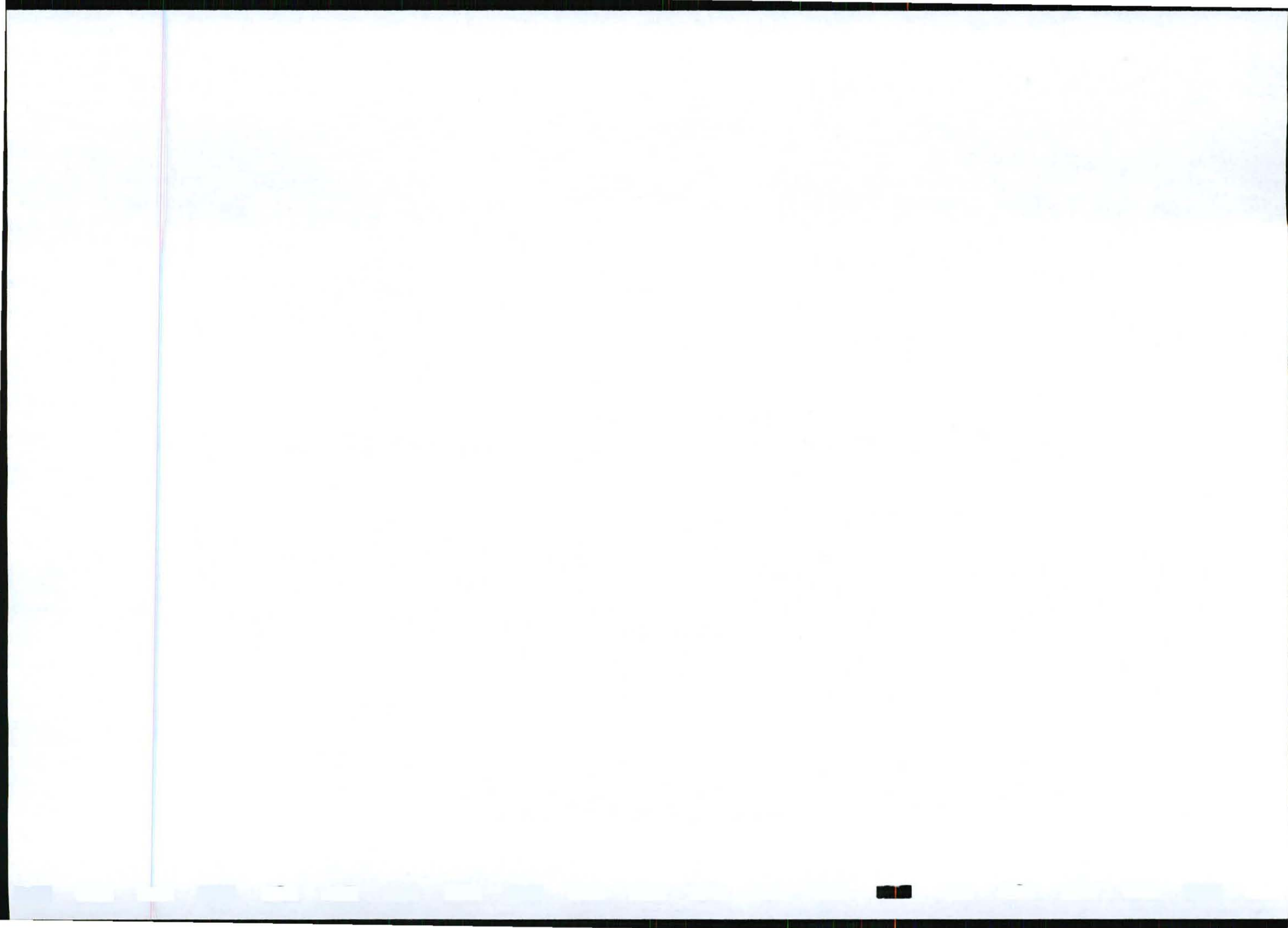
Signature of the specialist:

University of the Free State

Name of company (if applicable):

16.02.2012

Date:



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/
NEAS Reference Number:	DEAT/EIA/
Date Received:	

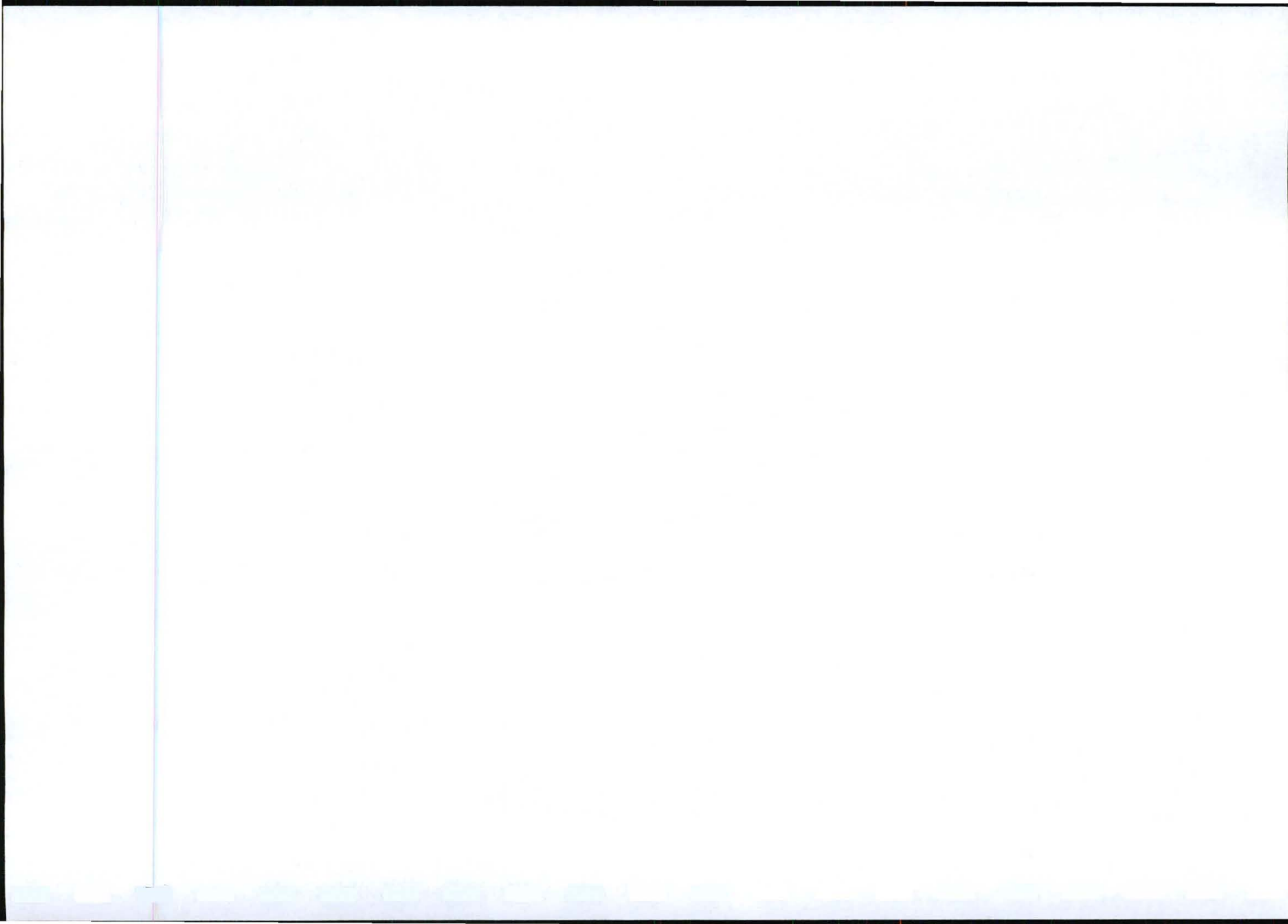
Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Solaire Direct Glen Thorne Solar Photovoltaic Facility of 10MW near Bloemfontein, Free State
--

Specialist:	The Freshwater Consulting Group (FCG)		
Contact person:	Dr. Liz Day		
Postal address:	6 Flamingo Crescent Zeekoeivlei		
Postal code:	7941	Cell:	+27 83 454 2309
Telephone:	+ 27 21 705 8672	Fax:	+27 86 529 6390
E-mail:	lizday@mweb.co.za		
Professional affiliation(s) (if any)	Member of IAIA Member of SAIEES Registered Professional Natural Scientist by SACNASP (Reg No 400270/08) for fields of Biological Science, Ecological Science and Zoological Science		

Project Consultant:	CSIR		
Contact person:	Samantha Naidoo		
Postal address:	PO Box 17001 Congella South Africa		
Postal code:	4013	Cell:	
Telephone:	+27 31 242 2397	Fax:	+27 31 261 2509
E-mail:	snaidoo5@csir.co.za		



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4.2 The specialist appointed in terms of the Regulations

1. Elizabeth (Liz) Day

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.



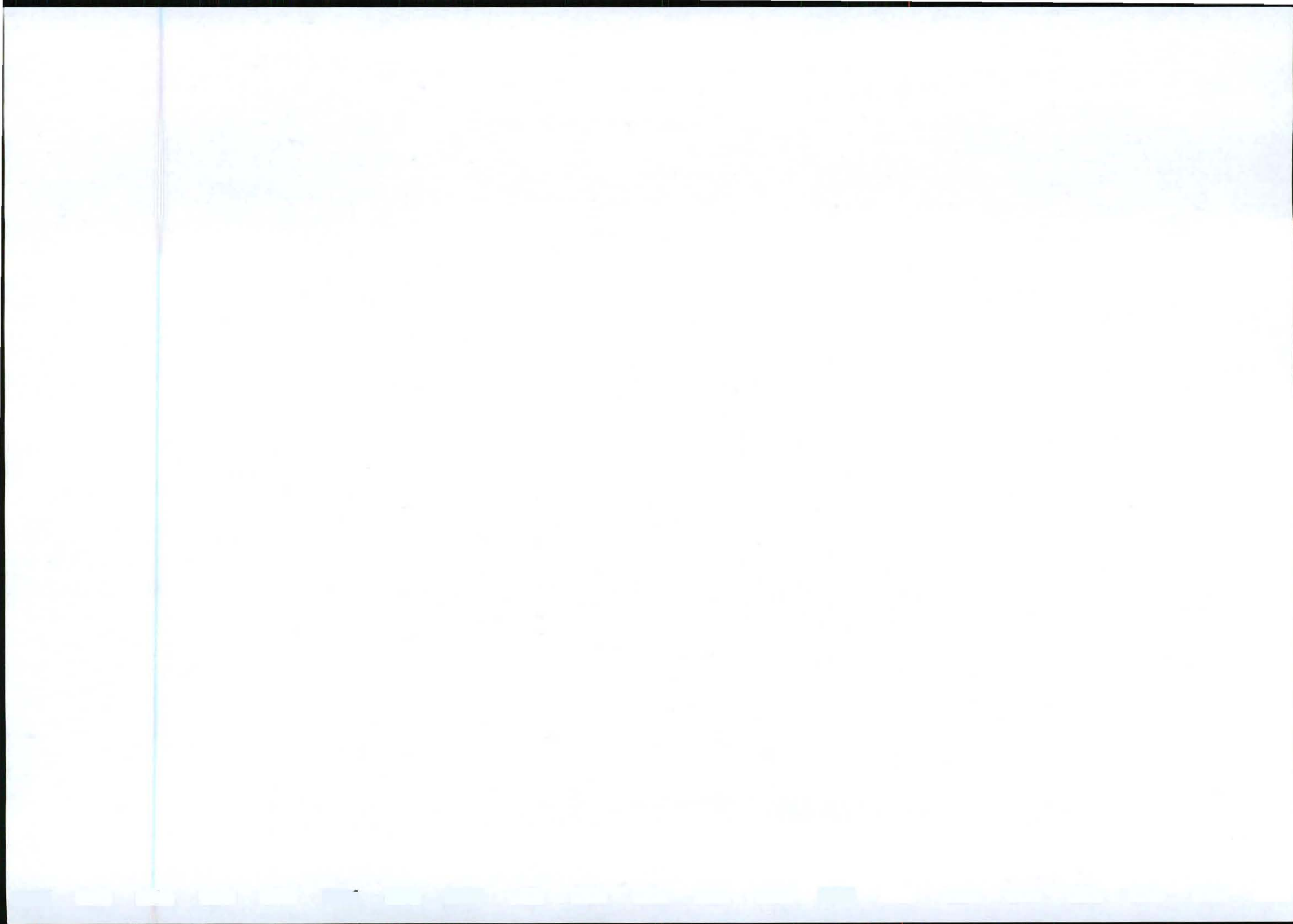
Signature of the specialist:

Freshwater Consulting cc

Name of company (if applicable):

8 March 2012

Date:



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

	(For official use only)
File Reference Number:	12/12/20/
NEAS Reference Number:	DEAT/EIA/
Date Received:	

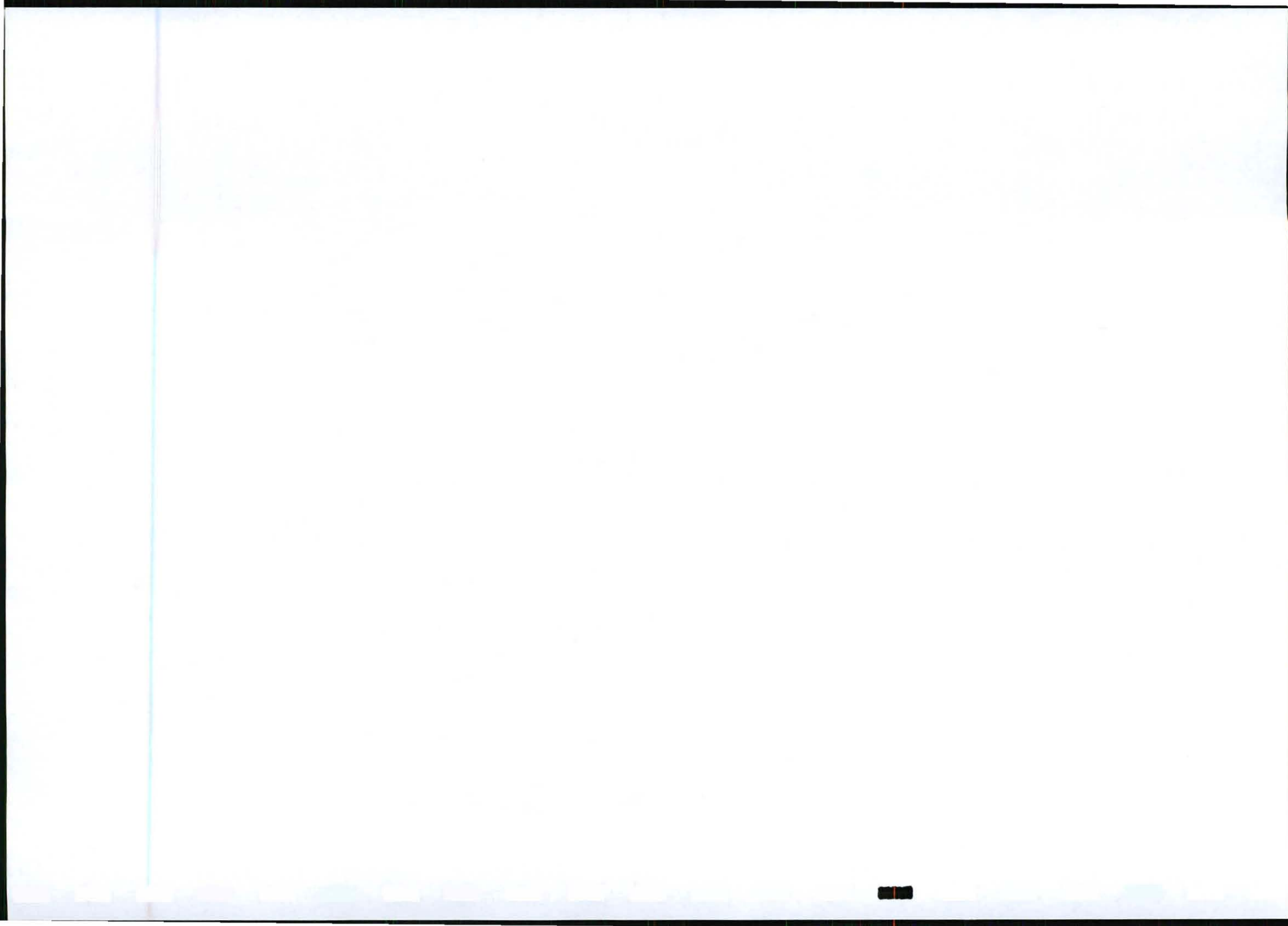
Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010

PROJECT TITLE

Solaire Direct Glen Thorne Solar Photovoltaic Facility of 10MW near Bloemfontein, Free State
--

Specialist:	National Museum, Bloemfontein		
Contact person:	Dr. Lloyd Rossouw		
Postal address:	PO Box 266 Bloemfontein		
Postal code:	9300	Cell:	
Telephone:	+27 51 447 9609	Fax:	+27 51 447 6273
E-mail:	lloyd@nasmus.co.za		
Professional affiliation(s) (if any)			

Project Consultant:	CSIR		
Contact person:	Samantha Naidoo		
Postal address:	PO Box 17001, Congella, Durban, South Africa		
Postal code:	4001	Cell:	
Telephone:	+27 31 242 2397	Fax:	+27 31 261 2509
E-mail:	snaidoo5@csir.co.za		



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

4.2 The specialist appointed in terms of the Regulations,

I, Lloyd Rossouw, declare that --

General declaration:

- I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

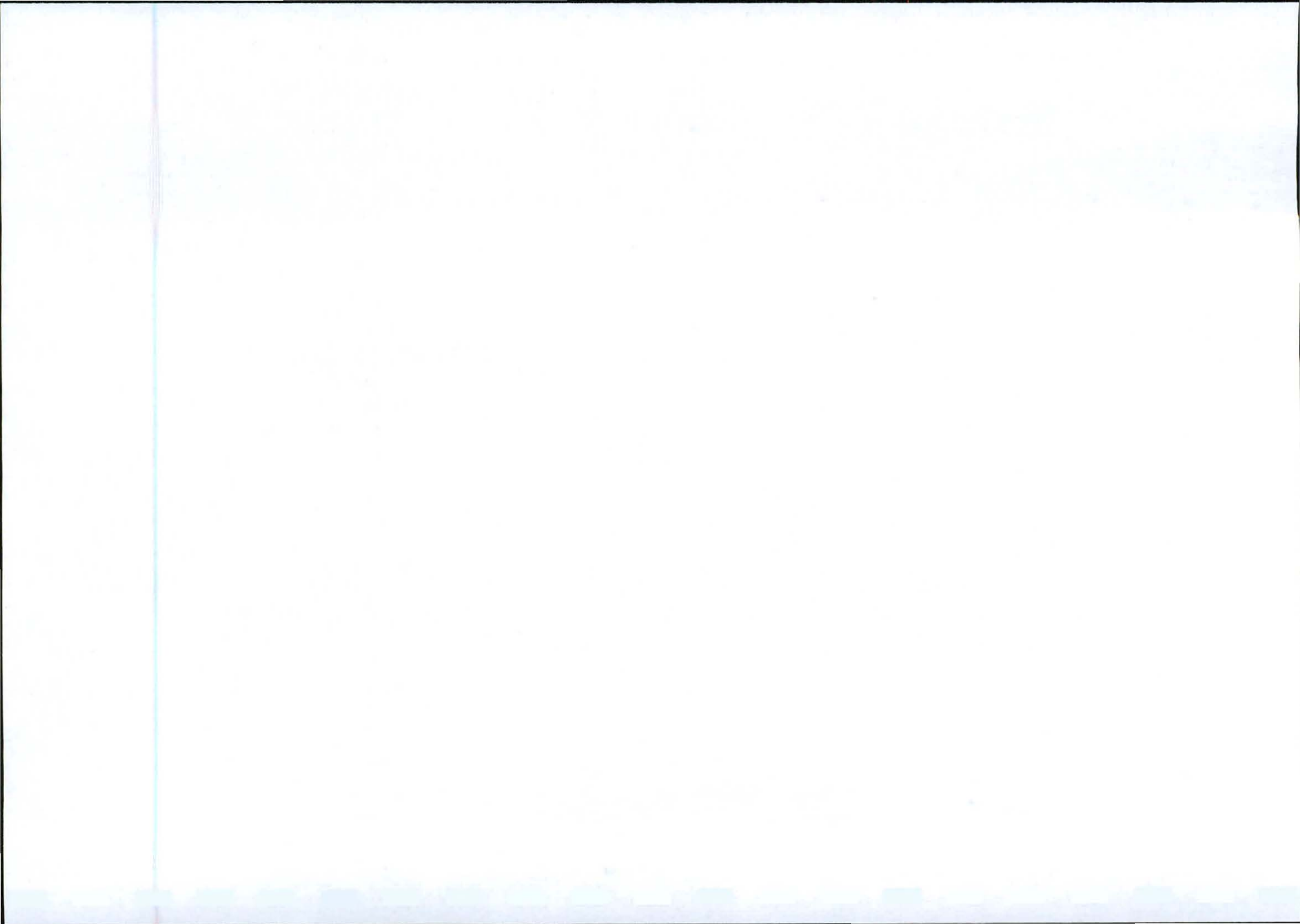


Signature of the specialist:

Name of company (if applicable):

12/03/2012

Date:



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Appendix G.9 Confirmation of consultation with the Landowner.

Next page/...



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

From: "Jacques Strydom" <jacques@humanauto.co.za>
To: "Samantha Naidoo" <SNaidoo5@csir.co.za>
Date: 14/02/2012 13:19
Subject: RE: Confirmation of consultation with landowner for the proposed construction and operation of the Glen Thorne 10MW solar facility

Samantha,

I'm aware of the project and fully support it.

Regards

Jacques Strydom

From: Samantha Naidoo [mailto:SNaidoo5@csir.co.za]
Sent: 07 February 2012 10:24 AM
To: jacques@humanauto.co.za
Subject: Confirmation of consultation with landowner for the proposed construction and operation of the Glen Thorne 10MW solar facility

Dear Jacques Strydom

Please respond to this e-mail confirming that you fully support and have been consulted with regarding the proposed construction, installation and operation of a 10 MW photovoltaic solar facility on Glen Thorne Farm (No. 2163).

Thanks and regards,
Samantha

Samantha Naidoo

Environmental Management Services (EMS)

CSIR Consulting and Analytical Services

PO Box 17001

Durban, 4001

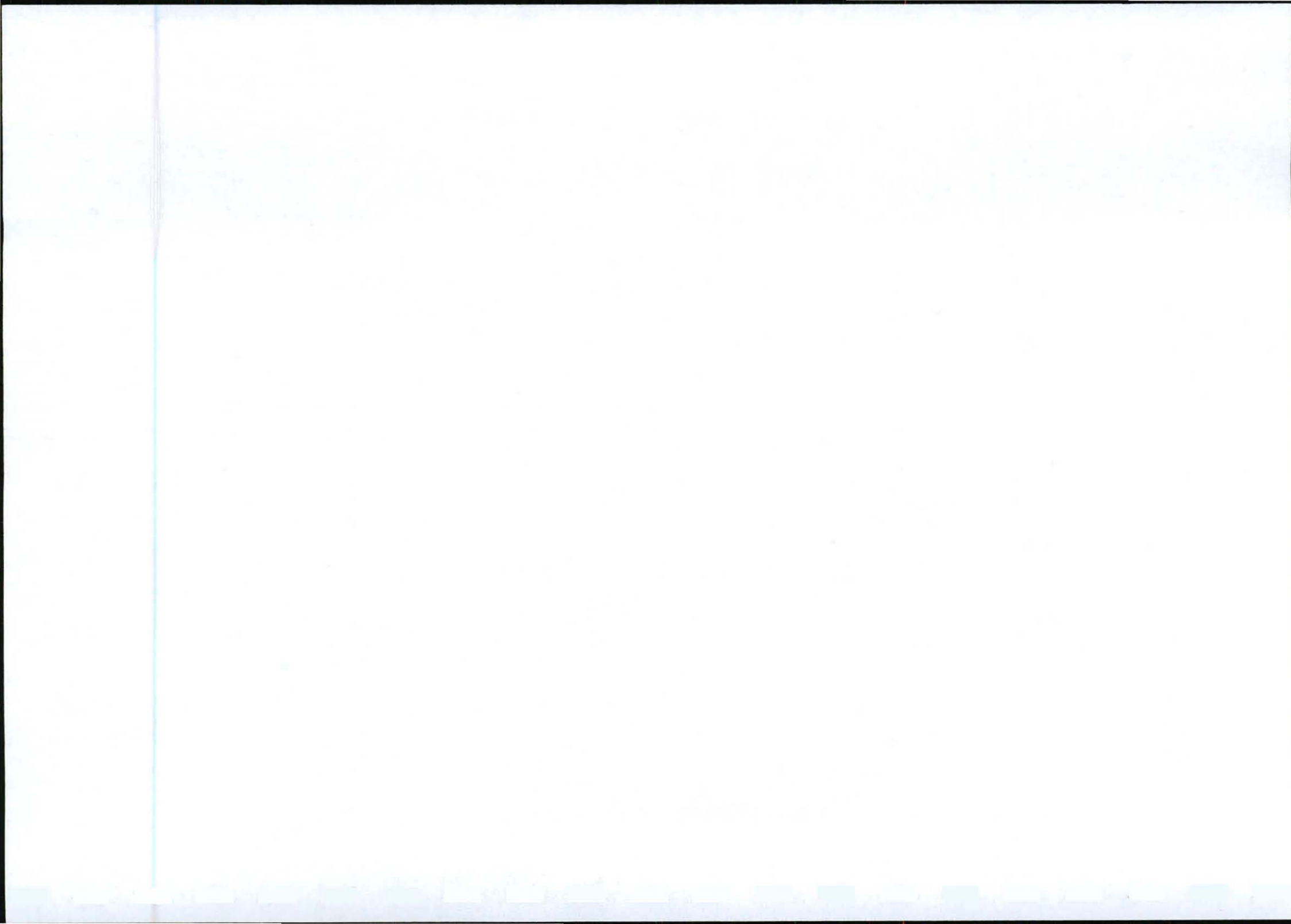
Tel: (031) 242 2397

Fax: (031) 261 2509

Email: snaidoo5@csir.co.za

--
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SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

<<http://www.mailscanner.info/>> MailScanner,
and is believed to be clean.



SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

Appendix G.10 Property Deeds applicable to the proposed Solar PV facility at Glen Thorne Farm, near Bloemfontein.

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SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

SOLAR PROJECT: SITE INFORMATION GLEN THORNE: J. Strydom

Deeds Office Property

GLEN THORNE, 2163, 0 (REMAINING EXTENT) (Bloemfontein)

Printed: 2011/07/13 14:03:00



GENERAL INFORMATION

Deeds Office: Bloemfontein
 Date Requested: 2011/07/13 14:01:36
 Information Source: Deeds Office
 Reference:

PROPERTY INFORMATION

Property Type: Farm
 Farm Name: GLEN THORNE
 Farm Number: 2163
 Portion: 0 (REMAINING EXTENT)
 Local Authority: MANGAUNG LOCAL MUNICIPALITY
 Registration Division: BLOEMFONTEIN RD
 Province: FREE STATE
 Diagram Deed: T4229/1921
 Extent: 182.4194H
 Previous Description:

OWNER INFORMATION

Owner 1 of 1
 Person Type: TRUST
 Name: BARNIE HUMAN LANGGOED TRUST
 Registration Number:
 Title Deed: T22387/1994
 Registration Date: 1994/12/30
 Purchase Price: R1995180.00 *
 Purchase Date: 1994/08/24
 Share:
 Microfilm Reference: 2004 0398 2518
 Multiple Properties: True
 Multiple Owners: True

ENDORSEMENTS (1)

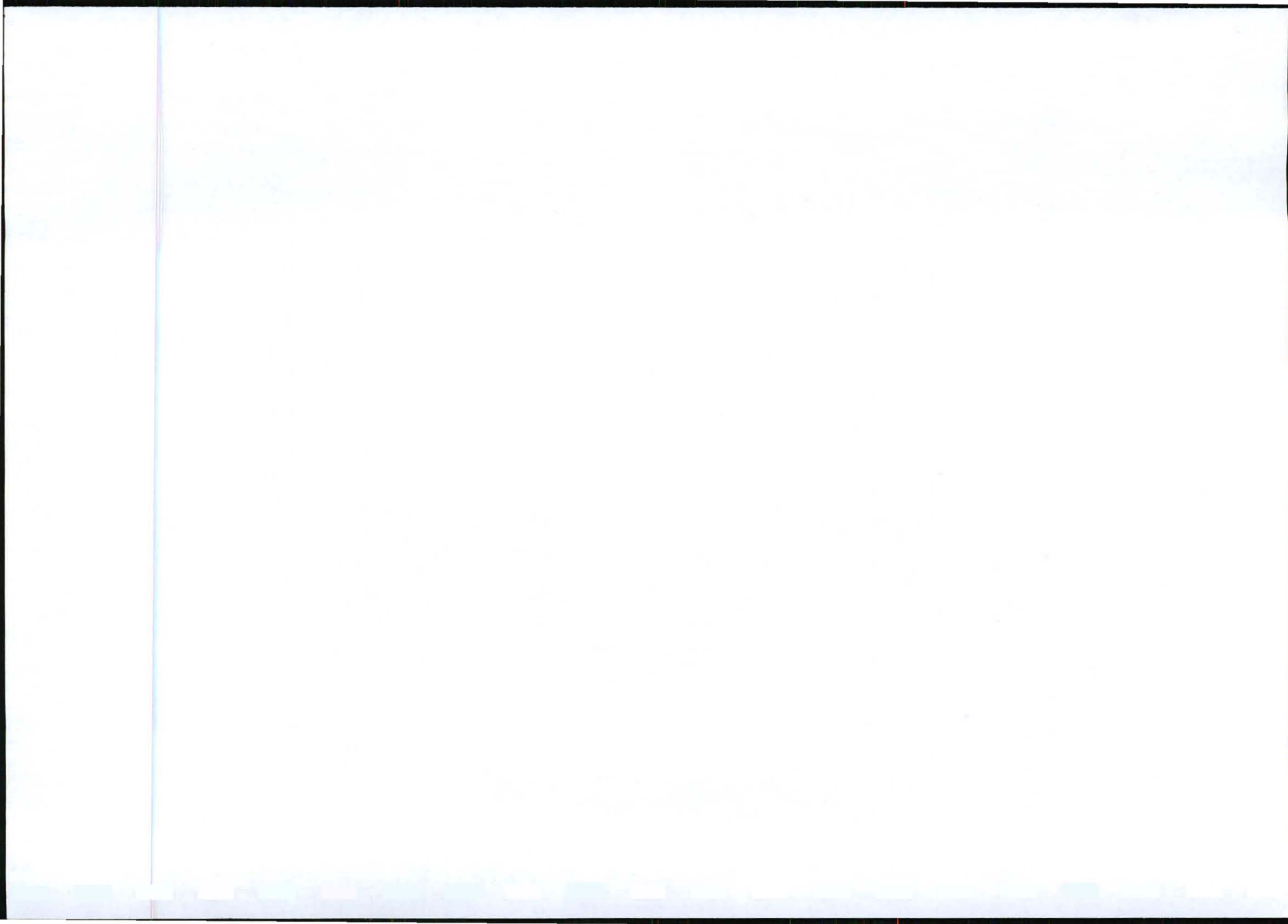
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HISTORIC DOCUMENTS (2)

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1	T9243/1958	TRANSFER	HUMAN BAREND		Unknown
2	T9243/1958	TRANSFER	HUMAN HESTER MARJA MAGDALENA		Unknown

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SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

SOLAR PROJECT: SITE INFORMATION GLEN THORNE: J. Strydom

Deeds Office Property

GLEN THORNE, 2163, 3 (Bloemfontein)

Printed: 2011/07/13 14:05:38

GENERAL INFORMATION

Deeds Office	Bloemfontein
Date Requested	2011/07/13 14:05:11
Information Source	Deeds Office
Reference	

PROPERTY INFORMATION

Property Type	Farm
Farm Name	GLEN THORNE
Farm Number	2163
Portion	3
Local Authority	MANGALING LOCAL MUNICIPALITY
Registration Division	BLOEMFONTEIN RD
Province	FREE STATE
Diagram Deed	T2963/1958
Extent	184 4503H
Previous Description	

OWNER INFORMATION

Owner 1 of 1

Person Type	TRUST
Name	BARNIE HUMAN LANGGEG TRUST
Registration Number	
Title Deed	T22387/1994
Registration Date	1994/12/30
Purchase Price	R 1895 180.00 *
Purchase Date	1994/06/24
Share	
Microfilm Reference	J094 0398 2518
Multiple Properties	True
Multiple Owners	True

ENDORSEMENTS (1)

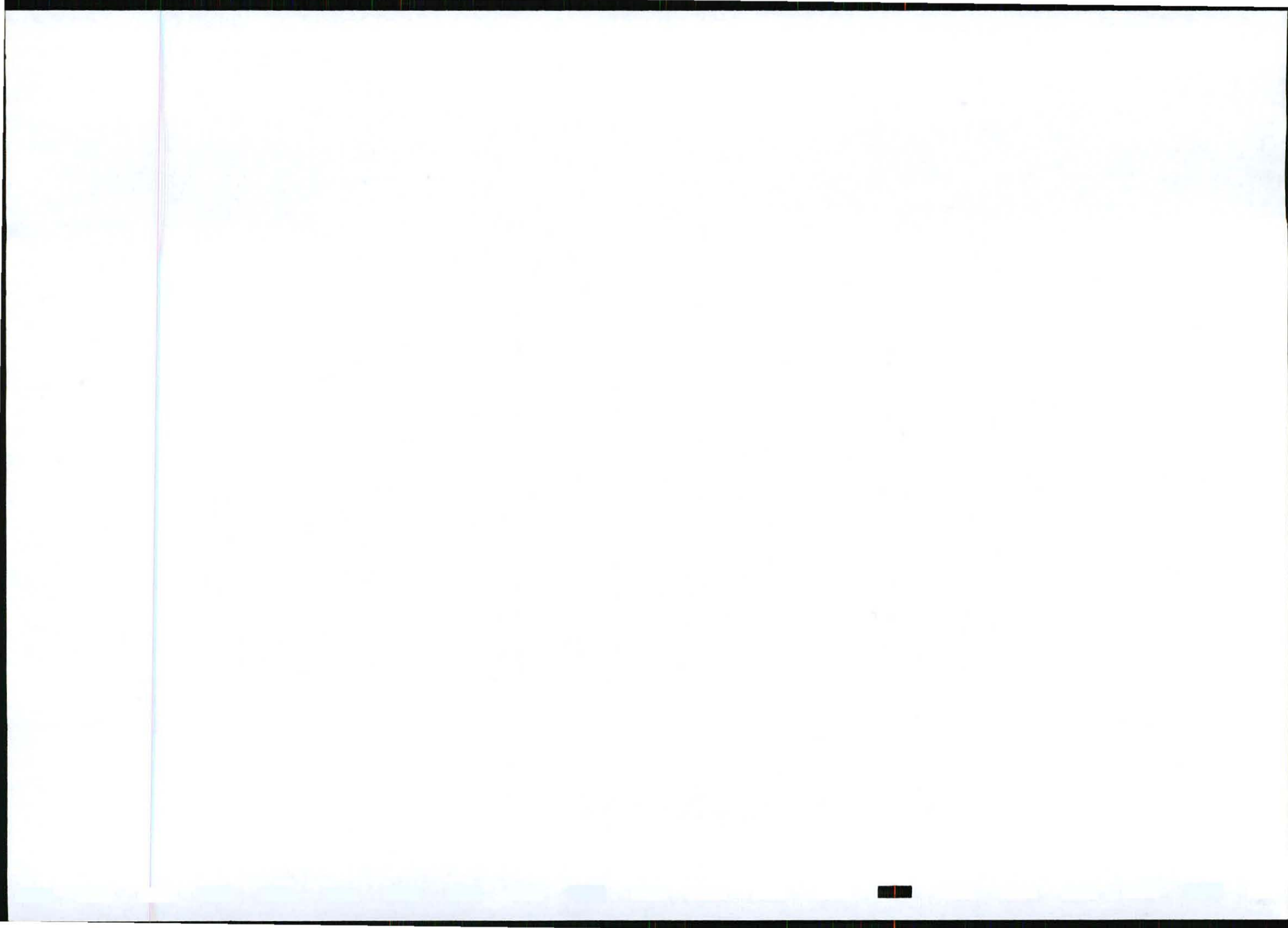
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HISTORIC DOCUMENTS (2)

#	Document	Description	Owner	Amount	Microfilm
1	T9243/1958	TRANSFER	HUMAN BAREND		Unknown
2	T9243/1958	TRANSFER	HUMAN HESTER MARIA MAGDALENA		Unknown

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SECTION F: APPENDICES

Draft Basic Assessment Report for a Photovoltaic (PV) Solar Facility Proposed by
SolaireDirect at Glen Thorne Farm (No. 2163) near Bloemfontein, Free State Province

SOLAR PROJECT: SITE INFORMATION GLEN THORNE: J. Strydom

Deeds Office Property

GLEN THORNE, 2163, 4 (Bloemfontein)

Printed: 2011/07/13 14:06:29

GENERAL INFORMATION

Deeds Office	Bloemfontein
Date Requested	2011/07/13 14:06:38
Information Source	Deeds Office
Reference	

PROPERTY INFORMATION

Property Type	Farm
Farm Name	GLEN THORNE
Farm Number	2163
Portion	4
Local Authority	MANGAUNG LOCAL MUNICIPALITY
Registration Division	BLOEMFONTEIN RD
Province	FREESTATE
Diagram Deed	T2903/1958
Extent	21 4251H
Previous Description	

OWNER INFORMATION

Owner 1 of 1

Person Type	TRUST
Name	BARNIE HUMAN LANDGOED TRUST
Registration Number	
Title Deed	T22387/1994
Registration Date	1994/12/30
Purchase Price	R1895180 00 *
Purchase Date	1994/09/24
Share	
Microfilm Reference	2004 0398 2518
Multiple Properties	True
Multiple Owners	True

ENDORSEMENTS (1)

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HISTORIC DOCUMENTS (2)

#	Document	Description	Owner	Amount	Microfilm
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2	T0243/1988	TRANSFER	HUMAN HESTER MARIA MAGDALENA		Unknown

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