

# BASIC ASSESSMENT REPORT

Basic Assessment for the proposed development of a 115 MW Solar Photovoltaic (PV) Facility and associated electrical infrastructure (i.e. Kenhardt PV 4), north-east of Kenhardt, in the Northern Cape



**APPENDIX E:**  
**EAP DETAILS AND DECLARATION**

## SECTION F: APPENDICES

Basic Assessment for the for the Proposed Development of the Scatec Kenhardt Solar PV4 project and associated electrical infrastructure, Kenhardt, Northern Cape

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### Appendix E.1 CV of Paul Lochner (EMS Manager and Reviewer)

Name of firm	CSIR
Name of staff	Paul Andrew Lochner
Profession	Environmental Assessment and Management
Position in firm	Project Leader in Environmental Assessment & Management
Date of birth	13 June 1969
Years with firm	20 years
Nationality	South African

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**Biographical sketch** Paul Lochner commenced work at CSIR in 1992, after completing a degree in Civil Engineering and a Masters in Environmental Science, both at the University of Cape Town. His initial work at CSIR focused on sediment dynamics and soft engineering applications in the coastal zone, in particular, beach and dune management. He conducted several shoreline erosion analyses and prepared coastal zone management plans for beaches. He also prepared wetland management plans.

As the market for environmental assessment work grew, he led Environmental Impact Assessments (EIAs), in particular for coastal resort developments and large-scale industrial developments located on the coast; and Environmental Management Plans (EMPs), in particular for wetlands, estuaries and coastal developments. He has also been involved in researching and applying higher-level approaches to environmental assessment and management, such as Strategic Environmental Assessment (SEA). In 1998 and 1999, he coordinated the SEA research programme within the CSIR, and was a lead author of the Guideline Document for SEA in South Africa, published jointly by CSIR and the national Department of Environmental Affairs and Tourism in February 2000.

In 1999 and 2000, he was the project manager for the legal, institutional, policy, financial and socio-economic component of the Cape Action Plan for the Environment ("CAPE"), a large-scale multi-disciplinary study to ensure the sustainable conservation of the Cape Floral Kingdom. This was funded by the Global Environmental Fund (GEF) and prepared for WWF-South Africa. The study required extensive stakeholder interaction, in particular with government institutions, leading to the development of a Strategy and Action Plan for regional conservation.

In July 2003, he was certified as an Environmental Assessment Practitioner by the Interim Certification Board for Environmental Assessment Practitioners of South Africa. In 2004 he was lead author of the *Overview of IEM* document in the updated Integrated Environmental Management (IEM) Information Series published by national Department of Environmental Affairs and Tourism (DEFFT). In 2004-2005 he was project manager for an Environmental and Social Impact Assessment (ESIA) conducted for a bauxite mine and alumina refinery in the Komi Republic (Russia), prepared in accordance with World Bank and EU policies, guidelines and standards.

In 2004-2005, he was part of the CSIR team that coordinated the preparation of the series of *Guidelines for involving specialists in EIA processes* prepared for the

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Western Cape Department of Environmental Affairs and Development Planning (DEFFDP); and authored the *Guideline for Environmental Management Plans* published by the Western Cape government in 2005.

In 2009, he led the EIA for a desalination plant in Namibia, as well as several EIAs for wind energy facilities in South Africa.

Over the past 16 years has been closely involved with several environmental studies for industrial and port-related projects in Coega Industrial Development Zone (IDZ), near Port Elizabeth. This included the SEA for the establishment of the Coega IDZ in 1996/7, an EIA and EMP for a proposed aluminium smelter in 2002/3, and assistance with environmental permit applications for air, water and waste. At the Coega IDZ and port, he has also conducted environmental assessments for port development, LNG storage and a combined cycle gas turbine power plant, manganese export, rail development, and wind energy projects.

Education	1990	B.Sc. Civil Engineering (awarded with Honours)	University of Cape Town
	1992	M. Phil. Environmental Science	University of Cape Town

**Employment record**     *January 1992 to June 1992:* Completed Masters thesis, working in conjunction with the Environmental Evaluation Unit at the University of Cape Town. The thesis investigated the potential future ecological and socio-economic impacts resulting from the closure of a large diamond mining operation, and developed actions to mitigate these impacts.

*October 1992 to present:* Employed by the CSIR in Stellenbosch. Involved in coastal engineering studies; and various forms of environmental assessment and management studies. (A track record of experience is listed below).

### PROFESSIONAL INVOLVEMENT IN COMMITTEES:

<i>1996/97:</i>	Committee Member of the Western Cape Branch of the International Association for Impact Assessment (IAIA)
<i>1997/98:</i>	Chairperson of the Western Cape Branch of IAIA and member of the national IAIA committee
<i>1998/99:</i>	Committee Member of the Western Cape Branch of IAIA
<i>1996 to present:</i>	Chairperson of the Blouville Environmental Committee at Century City, Cape Town (This committee is tasked with overseeing the restoration and management of a wetland in the midst of a new mixed-use urban development)

**Experience record**     The following table presents an abridged list of projects that Paul Lochner has been involved in, indicating his role in each project:

Completion Date	1. Project description	Role	Client
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Basic Assessment for the for the Proposed Development of the Scatec Kenhardt Solar PV4 project and associated electrical infrastructure, Kenhardt, Northern Cape

Completion Date	1. Project description	Role	Client
2011 - 2012	EIA for the <b>100 MW solar photovoltaic</b> project proposed by Mainstream Renewable Power at Blocuso, near Keimoes in the Northern Cape	Project leader	Mainstream Renewable Power
2011 – 2012	EIA for the <b>100 MW solar photovoltaic</b> project proposed by Mainstream Renewable Power at Roode Kop Farm, near Douglas, in the Northern Cape	Project leader	Mainstream Renewable Power
2011 – 2012	EIA for the <b>75 MW solar photovoltaic project</b> proposed by Solaire Direct at <b>GlenThorne</b> , near Bloemfontein in the Free State	Project leader	Solaire Direct
2011 – 2012	EIA for the <b>75 MW solar photovoltaic project</b> proposed by SolaireDirect at <b>Valleydora</b> , near Springfontein in the Free State	Project leader	Solaire Direct
2012 (in progress)	EIA for the <b>80 MW solar photovoltaic project</b> by CAMAC on Farm O’Poort near postmasburg.	Project leader	CAMAC International
2010-2011	More than 10 Basic Assessments (BAs) for <b>solar photovoltaic projects</b> in the western cape, Northern Cape, Eastern Cape and Free State	Project leader	Various clients including Dutch, German, French and South African companies
2010/2011 <i>(in progress)</i>	<b>EIA for the Langerfontein</b> wind project near Darling, Western Cape.	Project leader	Mr Herman Oelsner, Khwe Khoa
2010/2011 <i>(final report completed)</i>	<b>EIA for a 100 MW wind project at Zuurbron and a 50 MW wind project Broadlands</b> in the Eastern Cape	Project leader	WindCurrent SA (German-based company)
2010/2011 <i>(final report completed)</i>	<b>EIA for the proposed 143 MW Biotherm wind energy project near Swellendam</b> , Western Cape, South Africa	Project leader	Biotherm South Africa (Pty) Ltd
2010/2011 <i>(final report completed)</i>	<b>EIA for the proposed InnoWind wind energy projects near Swellendam, Heidelberg, Albertinia and Mossel Bay (totalling approx 210 MW)</b> , Western Cape, South Africa	Project leader	InnoWind South Africa (Pty) Ltd
2009/2010 <i>(authorisation granted by DEFF in Aug 2011)</i>	<b>EIA for the proposed Electrawinds wind energy facility</b> of 45-75 MW capacity in the Coega IDZ, Eastern Cape	Project leader	Electrawinds N.V. (Belgium)
2009/2010 <i>(authorisation granted by DEFF in April 2011)</i>	<b>EIA for proposed 180 MW Jeffreys Bay wind energy project</b> , Eastern Cape	Project Leader and co-author	Mainstream Renewable Power South Africa
2009/2010 <i>(authorisation granted by DEFF)</i>	<b>Basic Assessment for the national wind Atlas for South Africa</b>	Project leader	SANERI and SA Wind Energy Programme, Dept of Energy
2009/2010 <i>(on hold)</i>	<b>EIA for the proposed Gecko soda plant</b> , Otjivalunda and Arandis, Namibia	Project leader	Gecko, Namibia
2009	<b>EIA for the proposed desalination plant</b> at Swakopmund, Namibia	Project leader	NamWater, Namibia
2009	<b>EMP for the Operational Phase of the Berg River Dam</b> , Franschoek, South Africa	Project leader and report co-author	TCTA, South Africa
2009/2010 <i>(in progress)</i>	<b>EIA for the proposed crude oil refinery</b> at Coega, South Africa	Project leader and lead author	PetroSA, South Africa
2008	<b>Environmental Risk Review</b> for proposed LNG/CNG import to Mossel Bay, South Africa	Project leader and lead author	PetroSA, South Africa
2008	<b>Review of the Business Plan</b> for catchment management for the Berg Water Dam Project, Franschhoek, South Africa	Project reviewer and co-author	TCTA, South Africa

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Completion Date	1. Project description	Role	Client
2007 – 2010 <i>(in progress)</i>	<b>EIA for proposed Jacobsbaai Tortoise Reserve eco-development</b> , Saldanha, Western Cape	Project Leader and co-author	Jacobsbaai Tortoise Reserve (Pty) Ltd
2007 – 2010 <i>(in progress)</i>	<b>Independent reviewer</b> for the EIA proposed Amanzi lifestyle development, Port Elizabeth	Independent reviewer appointed to advise EAP	Public Process Consultants and Pam Golding
2007 – 2008	<b>EIA for proposed 18 MW Kouga wind energy project</b> , Eastern Cape	Project Leader and co-author	Genesis Eco-Energy (Approved by DEDEFF in March 2009)
2007	<b>Review of EIA for the proposed Hanglip Eco-Development</b> , Plettenberg Bay, Western Cape	Co-author of review of EIA, undertaken on behalf of DEFFDP	Dept of Environmental Affairs & Development Planning, Western Cape
2006-2007	<b>Scoping phase for the EIA for the proposed Coega LNG-to-Power Project</b> at the Port of Ngqura, Coega IDZ	Project Leader and co-author	Eskom and iGas
2006-2007	<b>Guideline</b> for Scoping, Environmental Impact Assessment and Environmental Management Plans for mining in South Africa	Project leader and co-author	Dept of Minerals and Energy (DME), South Africa
2006	<b>Environmental Impact Assessment (EIA)</b> for the extension of the Port of Ngqura, Eastern Cape	Project Leader and co-author	Transnet
2006	<b>Integrating Sustainability Into Strategy: Handbook</b> (Version 1)	Project Leader and co-author	CSIR (STEP research report)
2005	<b>Technology Review</b> for the proposed aluminium smelter at Coega, South Africa	Project Leader and lead author	Alcan, Canada
2005	<b>Environmental and Social Impact Assessment (ESIA) report</b> for the proposed alumina refinery near Sosnogorsk, Komi Republic, Russia	Project manager and co-author	Komi Aluminium, Russia, IFC, EBRD
2005	<b>Guideline for Environmental Management Plans (EMPs)</b> for the Western Cape province, including conducting a training course for provincial government	Author	Dept of Environmental Affairs & Development Planning, Western Cape
2005	<b>Guideline for the review of specialist studies</b> undertaken as part of environmental assessments	Member of Steering Committee and project facilitator	Dept of Environmental Affairs & Development Planning, Western Cape
2004	<b>Review of Strategic Management Plan</b> for Table Mountain National Park (2001-2004)	Reviewer and co-author	South African National Parks
2004	<b>Strategic Needs Assessment Process</b> for mainstreaming sustainable development into business operations	Researcher and co-author	CSIR (internal research)
2004	<b>Environmental Monitoring Committees</b> booklet in the IEM Information Series for DEFFT	Contributing author	Department of Environmental Affairs and Tourism (DEFFT)
2004	<b>Overview of Integrated Environmental Management (IEM)</b> booklet in the IEM Information Series	Lead author and researcher	DEFFT
2003	<b>Environmental Screening Study</b> for gas power station, South Africa	Project Manager and lead author	Eskom, iGas and Shell
2003	<b>Environmental Management Programme (EMP) Framework</b> for the proposed Coega Aluminium Smelter; and assistance with preparing permit and licence applications	Project Manager and lead author	Pechiney, France
2003	<b>Environmental Management Plan</b> for the Operational Phase of the wetlands and canals at Century City, Cape Town	Project leader and lead author	Century City Property Owners' Association

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Completion Date	1. Project description	Role	Client
2002	<b>Environmental Impact Assessment</b> for the proposed Pechiney aluminium smelter at Coega, South Africa	Project Manager and lead author	Pechiney, France
2002 - 2003	<b>Research project:</b> Ecological impact of large-scale groundwater abstraction on the Table Mountain Group aquifer	Project Manager	Water Research Commission
2002	<b>Environmental Management Plan</b> for the Eskom Wind Energy Demonstration Facility in the Western Cape	Co-author	Eskom
2001-2002	<b>Environmental Impact Assessment</b> for the Eskom Wind Energy Demonstration Facility in the Western Cape	Quality control & co-author	Eskom
2001	<b>Environmental Due Diligence</b> study of four strategic oil storage facilities in South Africa	Project manager and co-author	SFF Association
2000	<b>Cape Action Plan for the Environment:</b> a biodiversity Strategy and Action Plan for the Cape Floral Kingdom - legal, institutional, policy, financial and socio-economic component	Project manager and contributing writer	World Wide Fund for Nature (WWF): South Africa
1999	<b>Environmental Management Plan</b> for the establishment phase of the wetlands and canals at Century City, Cape Town	Project manager and lead author	Monex Development Company
1999	<b>Environmental Management Programme</b> for the Thesen Islands development, Knysna	Process design and Co-author	Chris Mulder Associates Inc; Thesen and Co.
1999	<b>Management Plan</b> for the coastal zone between the Eerste and Lourens River, False Bay, South Africa	Project manager and lead author	Heartland Properties and Somchem (a Division of Denel)
1998	<b>Environmental Assessment</b> of the Mozal Matola Terminal Development proposed for the Port of Matola, Maputo, Mozambique	Project manager and author.	<i>SNC-Lavalin-EMS</i>
1998	<b>Strategic Environmental Assessment (SEA)</b> for the Somchem industrial complex at Krantzkop, South Africa	Project manager and co-author	Somchem, a Division of Denel
1997	<b>Strategic Environmental Assessment (SEA)</b> for the proposed Industrial Development Zone and Harbour at Coega, Port Elizabeth, South Africa	SEA project manager and report writer	Coega IDZ Initiative Section 21 Company
1996	<b>Environmental Impact Assessment</b> of Development Scenarios for Thesen Island, Knysna, South Africa	Project manager and report writer	Thesen and Co.
1996	<b>Environmental Impact Assessment</b> of the Management Options for the Bloulevi wetlands, Cape Town	Project manager and report writer	Ilco Homes Ltd (now Monex Ltd)
1995	<b>Environmental Impact Assessment</b> for the Saldanha Steel Project, South Africa	Report writing and management of specialist studies	Saldanha Steel Project
1994	<b>Environmental Impact Assessment</b> for the upgrading of resort facilities on Frégate Island, Seychelles	Member of the project management team, co-author, process facilitator	Schneid Israelite and Partners
1994	<b>Environmental Impact Assessment</b> for exploration drilling in offshore Area 2815, Namibia	Project manager and co-author	Chevron Overseas (Namibia) Limited
1994	<b>Management Plan</b> for the Rietvlei Wetland Reserve, Cape Town	Project manager and lead author	Southern African Nature Foundation (now WWF-SA)
1993	<b>Beach management plan</b> for Stilbaai beachfront and dunes, South Africa	Project manager and lead author	Stilbaai Municipality

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Completion Date	1. Project description	Role	Client
1993	<b>Beach and dune management plan for Sedgfield</b> for the beach east of the mouth of the Swartvlei estuary	Project manager and lead author	Nel and De Kock Planners, George
1993	<b>Coastal Stability analysis and beach management plan</b> for the Table View coastline north of Blaauwberg Road, Cape Town	Project manager and lead author	Milnerton Municipality

Publication record A comprehensive list of publications, book chapters and contract reports is available upon request, with a summary provided below.

*Publications in journals, peer reviewed conference proceedings and CSIR internal research reports:*

Weaver A, Pope J, Morrison-Saunders A & Lochner P, 2009, Contributing to sustainability as an environmental impact assessment practitioner, *Impact Assessment and Project Appraisal (IAPA)*, 26:2, 91-98. (This paper received the IAPA best paper award for 2009).

Lochner P, 2009: Case study - The role of environmental and social screening in informing the conceptual design and planning of large-scale projects in the pre-feasibility phase, in DBSA, 2009, *What works for us – a South African Country report for tactics, Tools and Methods for Integrating Environment and Development* (A South African Case study in partnership with the IIED), pp 37-38, Midrand, South Africa.

Lochner P, Munster F and Burns M, 2006. Integrating Sustainability into Strategy (ISIS): a process to inform sustainability strategies and frameworks, *In: IAIA South Africa Annual Conference proceedings*, South Africa.

Rossouw N and Lochner P, 2006. Environmental Monitoring Committees (EMCs): purpose, function and structure. *In: IAIA South Africa Annual Conference proceedings*, South Africa.

Munster F and Lochner P, 2006, Integrating Sustainability Into Strategy: Handbook (Version 1) – describing a process to inform sustainability strategies, frameworks and reports, *CSIR Report ENV-S-I 2005-001*, ISBN 0-7988-5560-6, Stellenbosch.

Van Zyl H, de Wit M, Munster F, Lochner P, Gerber G, 2005. Economics in Environmental Impact Assessment: demystifying the theory and practice, *In: Conference Proceedings of the IAIA South Africa 2005 Annual National Conference*. South Africa.

Lochner P, Weaver A, Gelderblom C, Peart R, Sandwith T and Fowkes S, 2003. Aligning the diverse: the development of a biodiversity conservation strategy for the Cape Floristic Region. *Biological Conservation Vol. 112, ISSN: 0006-3207*.

Lochner P, Münster F, Msutu M, Wren S, 2003. The role of stakeholder engagement in the EIA for the Coega Aluminium Smelter. *In: Conference Proceedings of the IAIA South Africa 2003 Annual National Conference*. ISBN 1-919891-04-8. South Africa.

Lochner P, Brooks W, Pesch P & Münster M. 2003, Stakeholder engagement process in the EIA of an aluminium smelter, Published in *Light Metals 2003* (Ed. Paul Crepeau), Published by TMS (the Minerals, Metals & Materials Society),

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ISBN Number 0-87339-531-X, USA.

Rossouw N, Audouin M, Lochner P, Heather-Clark S and Wiseman K, 2000. Development of strategic environmental assessment in South Africa. *Impact Assessment and Project Appraisal*. Vol 18, no. 3, pp 217-223. United Kingdom.

Lochner P and Fowkes S, 2000. Building partnerships for the conservation of the biodiversity of the Cape Floral Kingdom: experiences and lessons learnt from the Cape Action Plan for the Environment. *In: IAIA-SA Conference Proceedings 2000*. South Africa.

Lochner P and Rossouw N, 1997. The development of an Environmental Management Plan for incorporating a wetland into a large mixed use development: the Century City example. *In: IAIA-SA Conference Proceedings 1997*. South Africa.

Language  
capability

	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
English	Excellent	Excellent	Excellent
Afrikaans	Average	Average	Average

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**Appendix H.2 CV of Kelly Stroebel (Project Manager/EAP)**



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<b>Name of firm</b>	CSIR
<b>Name of staff</b>	Kelly Stroebel
<b>Profession</b>	Senior Environmental Assessment Practitioner
<b>Position in firm</b>	Senior Environmental Assessment Practitioner
<b>Years' experience</b>	6 years
<b>Nationality</b>	South African

**Biographical Sketch** Kelly holds a Bachelor of Science with Honours in Environmental Science from Rhodes University in Grahamstown and is currently pursuing a Masters at the University of Stellenbosch. Her undergraduate degree was a Bachelor of Science with majors in Environmental Science and Zoology. She is currently working as an environmental assessment practitioner at the Council for Scientific and Industrial Research (CSIR). Kelly has been the Project Manager of several EIA's in South Africa in the renewable energy and gas sector, and several Basic Assessments for the Special Needs and Skills Development Programme. She has assisted in the SIP projects including the National Wind & Solar Strategic Environmental Assessment (SEA) and Electricity Grid Infrastructure SEA as SEA which were commissioned by the national Department of Environmental Affairs.

### EMPLOYMENT TRACK RECORD

The following table presents a sample of the projects that Kelly Stroebel has been involved in to this date:

Completion Date	Project description	Role	Client
In progress	<b>EIA's in the South African energy sector</b>	Project Manager/EAP	Private energy companies and organs of state
In progress	<b>Special Needs and Skills Development Programme (DEFF-CSIR)</b>	Project Manager conducting Environmental services such as basic Assessments and Environmental Screening Studies.	Various SMME's and Community Trusts
2015	<b>Strategic Environmental Assessment (SEA)</b> for Electricity Grid Infrastructure	Project member-stakeholder engagement and project support.	National Department of Environmental Affairs
2015	<b>EIA for two proposed Desalination plants on the KZN coast.</b>	Project member- Public Participation Process, stakeholder engagement and project support.	Umgeni Water
August 2014	<b>National Strategy for Sustainable Development Review (NSSD1)</b>	Project member- research and report development.	National Department of Environmental Affairs
2013-2014	<b>Strategic Environmental Assessment (SEA)</b> for roll out of photovoltaic solar and wind energy in South Africa.	Project member- Stakeholder engagement and project support	National Department of Environmental Affairs

### EMPLOYMENT RECORD

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- **2015 to present** Environmental Scientist and Assessment Practitioner. Council for Scientific and Industrial Research – Consulting and Analytical Services (CAS) - Stellenbosch
  - **2014** Environmental Scientist and Assessment Practitioner (Intern). Council for Scientific and Industrial Research – Consulting and Analytical Services (CAS) - Stellenbosch

### QUALIFICATIONS/EDUCATION

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- BSc Hons. Environmental Science (Rhodes University, Grahamstown, South Africa)
  - Honours modules including Environmental Impact Assessment, Statistics, Climate Change Adaptation, Urban Ecology and Environmental Water Quality.
  - Honours thesis: “Water use and conservation by households of different economic status in King William’s Town”
- Bachelor of Science with Distinction (Rhodes University, Grahamstown, South Africa)
  - Undergraduate courses including Environmental Science, Zoology, Ichthyology, Chemistry, Earth Science, Botany and Computer Science.
- IEB Matric Certificate, 5 Distinctions (St Dominic’s Academy, Newcastle)

### TRAINING, CONFERENCES AND PROFESSIONAL REGISTRATIONS

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- Member of the Conference Organizing Committee (COC) for the IAIA Annual Conference 2017
- Project Management Practices and Principles with MS projects with the University of Pretoria: Distinction obtained (2016)
- Introduction to Earth Observation using ENVI with the University of Stellenbosch (2016)
- Public Participation Course with IAP2 (2016)
- Conflict Management Accredited through Conflict Dynamics (2015)
- Media and Science Training Accreditation through Jive Media Africa (2015)
- IAIA WC Workshop for Integrating Climate Change into EIA practice (2015)
- Presented on the DEFF-CSIR “Special Needs and Skills Development Programme” at the 2014 & 2015 Annual IAIA (International Association for Impact Assessment) South Africa Conference.
- Environmental Impact Assessment Training Course accreditation through Coastal and Environmental Services, Grahamstown (2012)
- DEFF&DP Training on the EIA Regulations (2014)
- Registered as a Candidate Natural Scientist with the South African Council for Natural Scientific Professions (SACNASP) (Reg #: 100151/14)
- Member of the South African Affiliate of the International Association for Impact Assessment (Membership no: 3588)

### LANGUAGE CAPABILITY

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<b>LANGUAGES</b>	<b>Speaking</b>	<b>Reading</b>	<b>Writing</b>
English	Excellent	Excellent	Excellent
Afrikaans	Moderate	Moderate	Moderate

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### Appendix E.3 EAP Declaration of Interest

I, Kelly Stroebel, declare that:

- 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 will take into account, to the extent possible, the matters listed in Regulation 18 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, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided 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 inputs and comments of all stakeholders and 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;
- I declare that all the particulars furnished by me are true and correct;
- 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;
- I will provide the competent authority any information that is provided by the EAP to interested and affected parties and; any responses by the EAP to comments or inputs made by interested or affected parties;
- I affirm that the information provided in this report includes input and recommendations from specialist reports where relevant;
- the information provided in this report has been sourced from relevant literature, legislation, previous studies and specialist input and is therefore believed to be correct;
- I will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations;
- I realise that a false declaration is an offence in terms of regulation 48 of the Regulations and is punishable in terms of section 24F of the Act; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in section 49B of the Act.

**Signed at Stellenbosch on the 22<sup>th</sup> January 2020**

**Kelly Stroebel  
Environmental Assessment Practitioner**

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### **Appendix E.4 Specialist Declaration Forms**



## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

### DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

	(For official use only)
File Reference Number:	
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

#### PROJECT TITLE

Kenhardt PV4 Solar Photovoltaic Project

#### Kindly note the following:

1. This form must always be used for applications that must be subjected to Basic Assessment or Scoping & Environmental Impact Reporting where this Department is the Competent Authority.
2. This form is current as of 01 September 2018. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the form have been published or produced by the Competent Authority. The latest available Departmental templates are available at <https://www.environment.gov.za/documents/forms>.
3. A copy of this form containing original signatures must be appended to all Draft and Final Reports submitted to the department for consideration.
4. All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Officer Hours which is visible on the Departmental gate.
5. All EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted, only hardcopy submissions are accepted.

#### Departmental Details

##### Postal address:

Department of Environmental Affairs  
Attention: Chief Director: Integrated Environmental Authorisations  
Private Bag X447  
Pretoria  
0001

##### Physical address:

Department of Environmental Affairs  
Attention: Chief Director: Integrated Environmental Authorisations  
Environment House  
473 Steve Biko Road  
Arcadia

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:  
Email: [EIAAdmin@environment.gov.za](mailto:EIAAdmin@environment.gov.za)

**1. SPECIALIST INFORMATION**

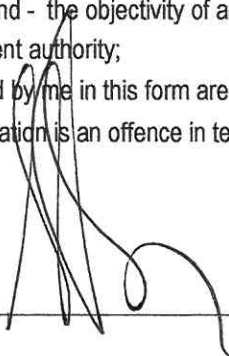
Specialist Company Name:	SDP Ecological & Environmental Services		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	exempt	Percentage Procurement recognition
Specialist name:	Simon C Bundy		
Specialist Qualifications:	BSc MSc		
Professional affiliation/registration:	Pr Sci Nat Ecologist		
Physical address:	6 Salisbury Rd Ballito		
Postal address:	Box 1016 Ballito		
Postal code:	4420	Cell:	0824464847
Telephone:	032 5861218	Fax:	
E-mail:	simon@ecocoast.co.za		

**2. DECLARATION BY THE SPECIALIST**

I, Simon C Bundy, declare that –

- 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 48 and is punishable in terms of section 24F of the Act.

Signature of the Specialist



SDP Ecological & Environmental Services

Name of Company:

10 December 2019

Date

Details of Specialist, Declaration and Undertaking Under Oath

3. UNDERTAKING UNDER OATH/AFFIRMATION

I, Simon C Bundy, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.

Signature of the Specialist

SDP Ecological & Environmental Services

Name of Company

10 12 19

Date

Signature of the Commissioner of Oaths

Date





## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

### DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

(For official use only)

File Reference Number:  
NEAS Reference Number:  
Date Received:

DEA/EIA/

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

#### PROJECT TITLE

**PROPOSED CONSTRUCTION OF THE SOLAR PHOTOVOLTAIC (PV) FACILITY, KENHARDT PV4 AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, NEAR KENHARDT, IN THE NORTHERN CAPE**

#### Kindly note the following:

1. This form must always be used for applications that must be subjected to Basic Assessment or Scoping & Environmental Impact Reporting where this Department is the Competent Authority.
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Attention: Chief Director: Integrated Environmental Authorisations  
Private Bag X447  
Pretoria  
0001

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Email: [EIAAdmin@environment.gov.za](mailto:EIAAdmin@environment.gov.za)



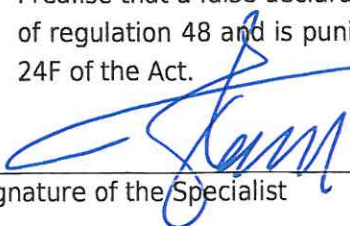
**1. SPECIALIST INFORMATION**

Specialist Company Name:	Johann Lanz – Soil Scientist		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	4	Percentage Procurement recognition
			100%
Specialist name:	Johann Lanz		
Specialist Qualifications:	M.Sc. (Environmental Geochemistry)		
Professional affiliation/registration:	Registered Professional Natural Scientist Member of the Soil Science Society of South Africa		
Physical address:	1a Wolfe Street, Wynberg, Cape Town, 7800		
Postal address:	1a Wolfe Street, Wynberg, Cape Town, 7800		
Postal code:	7800	Cell:	082 927 9018
Telephone:	082 927 9018	Fax:	Who still uses a fax? I don't
E-mail:	johann@johannlanz.co.za		

**2. DECLARATION BY THE SPECIALIST**

I, **Johann Lanz**, declare that -

- 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 48 and is punishable in terms of section 24F of the Act.

  
 \_\_\_\_\_  
 Signature of the Specialist

Johann Lanz - Soil Scientist (sole proprietor)  
 \_\_\_\_\_  
 Name of Company:  
 \_\_\_\_\_  
 17/12/2019  
 \_\_\_\_\_  
 Date

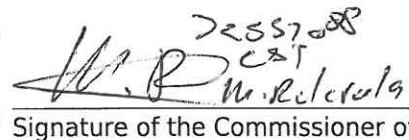
**3. UNDERTAKING UNDER OATH/ AFFIRMATION**

I, **Johann Lanz**, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.

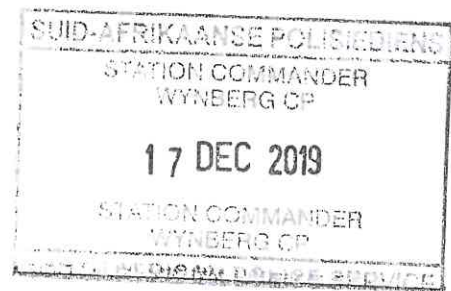
  
 \_\_\_\_\_  
 Signature of the Specialist

Johann Lanz - Soil Scientist (sole proprietor)  
 \_\_\_\_\_  
 Name of Company

17/12/2019  
 \_\_\_\_\_  
 Date

  
 \_\_\_\_\_  
 Signature of the Commissioner of Oaths

2019-12-17  
 \_\_\_\_\_  
 Date





# environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

## DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

(For official use only)

File Reference Number:  
NEAS Reference Number:  
Date Received:

DEA/EIA/

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

### PROJECT TITLE

KENHARDT SOLAR PV 4 PROJECT PROPOSED BY SCATEC NEAR KENHARDT IN THE NORTHERN CAPE

### Kindly note the following:

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Attention: Chief Director: Integrated Environmental Authorisations  
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Arcadia

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:  
Email: [EIAAdmin@environment.gov.za](mailto:EIAAdmin@environment.gov.za)

1. SPECIALIST INFORMATION

Specialist Company Name:	Afrimage Photography (Pty) Ltd t/a Chris van Rooyen Consulting			
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	Contribution level (indicate 1 to 8 or non-compliant)	Contribution level (indicate 1 to 8 or non-compliant)	Contribution level (indicate 1 to 8 or non-compliant)
Specialist name:	Chris van Rooyen			
Specialist Qualifications:	BA LLB			
Professional affiliation/registration:	I work under the supervision of and in association with Albert Froneman (MSc Conservation Biology) (SACNASP Zoological Science Registration number 400177/09) as stipulated by the Natural Scientific Professions Act 27 of 2003.			
Physical address:	30 Roosevelt Street, Robindale, Randburg			
Postal address:	30 Roosevelt Street, Robindale, Randburg			
Postal code:	2194	2194	2194	2194
Telephone:	0824549570	0824549570	0824549570	0824549570
E-mail:	Vanrooyen.chris@gmail.com	Vanrooyen.chris@gmail.com	Vanrooyen.chris@gmail.com	Vanrooyen.chris@gmail.com

2. DECLARATION BY THE SPECIALIST

I, Chris van Rooyen, declare that –

- 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;
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- 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 48 and is punishable in terms of section 24F of the Act.

  
 \_\_\_\_\_  
 Signature of the Specialist

Afrimage Photography (Pty) Ltd t/a Chris van Rooyen Consulting  
 \_\_\_\_\_  
 Name of Company:

20 January 2019

Date

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, Chris van Rooyen, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.



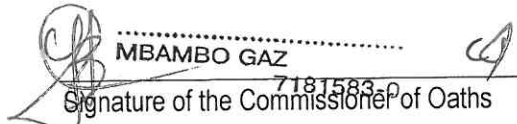
Signature of the Specialist

Afrimage Photography (Pty) Ltd

Name of Company

20 January 2019

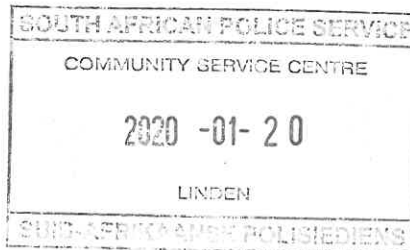
Date



MBAMBO GAZ  
7181583-0  
Signature of the Commissioner of Oaths

2020-01-20

Date





## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

### DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

File Reference Number:	(For official use only)
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

#### PROJECT TITLE

**Basic Assessment for the proposed construction of a Solar Photovoltaic (PV) Facility (i.e. Kenhardt PV6) and associated electrical infrastructure, near Kenhardt, in the Northern Cape**

#### Kindly note the following:

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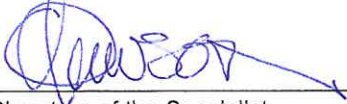
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Email: [EIAAdmin@environment.gov.za](mailto:EIAAdmin@environment.gov.za)

3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, QUINTON LAWSON, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.



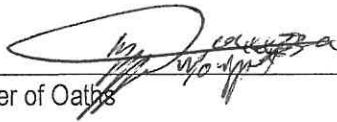
Signature of the Specialist

QARC

Name of Company

12/12/2019

Date



Signature of the Commissioner of Oaths

2019/12/12

Date





## environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

### DETAILS OF THE SPECIALIST, DECLARATION OF INTEREST AND UNDERTAKING UNDER OATH

File Reference Number:	(For official use only)
NEAS Reference Number:	DEA/EIA/
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment (EIA) Regulations, 2014, as amended (the Regulations)

#### PROJECT TITLE

Basic Assessment for Kenhardt PV6 solar energy facility and associated electrical infrastructure

#### Kindly note the following:

1. This form must always be used for applications that must be subjected to Basic Assessment or Scoping & Environmental Impact Reporting where this Department is the Competent Authority.
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Arcadia

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Email: [EIAAdmin@environment.gov.za](mailto:EIAAdmin@environment.gov.za)

**1. SPECIALIST INFORMATION**

Specialist Company Name:	ASHA CONSULTING (PTY) LTD		
B-BBEE	Contribution level (indicate 1 to 8 or non-compliant)	4	Percentage Procurement recognition
			0
Specialist name:	JAYSON ORTON		
Specialist Qualifications:	D. Phil.		
Professional affiliation/registration:	ASAPA CPM SECTION #233 APHP # 043		
Physical address:	40 BRASSIE STREET, LAKEVIEW, 7945		
Postal address:	40 BRASSIE STREET, LAKEVIEW		
Postal code:	7945	Cell:	083 272 3225
Telephone:	021 758 1025	Fax:	—
E-mail:	jayson@asha-consulting.co.za		

**2. DECLARATION BY THE SPECIALIST**

I, JAYSON ORTON, declare that –

- 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 48 and is punishable in terms of section 24F of the Act.

Signature of the Specialist



ASHA CONSULTING (PTY) LTD

Name of Company:

Date

03/12/2019



3. UNDERTAKING UNDER OATH/ AFFIRMATION

I, JAYSON ORTON, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.

Signature of the Specialist



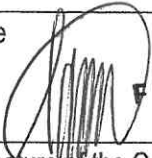
Name of Company

ASHA CONSULTING (PT) LTD

Date

03/12/2019

Signature of the Commissioner of Oaths



**F NEDAMBALE**  
**7225467-0**

2019-12-03

Date

## 1. SPECIALIST DECLARATION

I, **Rudolph du Toit** as the appointed independent specialist, in terms of the 2014 EIA Regulations (as amended), hereby declare that I:

- I act as the independent specialist in this application;
- I 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;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 (as amended) and any specific environmental management Act;
- 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 have no vested interest in the proposed activity proceeding;
- 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 have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Name of Specialist: **Rudolph du Toit**

Signature of the specialist: \_\_\_\_\_



Date: **28 December 2019**

## APPENDIX 9.1 - Specialist Declaration

I, Herbert Phahlane as the appointed independent specialist, in terms of the 2014 EIA Regulations (as amended), hereby declare that I:

- I act as the independent specialist in this application;
- I 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;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 (as amended) and any specific environmental management Act;
- 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 have no vested interest in the proposed activity proceeding;
- 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 have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Name of Specialist: Herbert Phahlane

Signature of the specialist: \_\_\_\_\_



Date: 2020-01-14