



NICOLAAS HANEKOM

ECO IMPACT LEGAL CONSULTING (PTY) LTD

PO Box 45070,
Claremont,
South Africa,
7735

Your reference:

Our reference: 1000/Olyvenkolk/AIAPR

Date: 09 February 2019

ATTENTION: nicolaas@ecoimpact.co.za

Dear Nicolaas,

PEER REVIEW OF AGRICULTURAL IMPACT ASSESSMENT FOR THE 300MW PHOTOVOLTAIC ELECTRICITY GENERATION FACILITY ON PORTIONS 6 AND 3 OF FARM 187 OLYVENKOLK IN KENHARD, NORTHERN CAPE

1. INTRODUCTION

The Agricultural Impact Assessment of the proposed 300MW Photovoltaic Electricity Generation Facility project on Portions 6 and 3 of Farm 187 Olyvenkolk in Kenhard, Northern Cape, has reference.

Michael Wright of Sustain Ecotourism and Environmental was requested to undertake a peer review of the aforementioned study.

2. SCOPE

The Terms of Reference for the peer review included:

- Evaluate the appropriateness of the referenced literature;
- Indicate whether the article is well written and easy to understand;
- To review the report in terms of the current minimum requirements for biodiversity assessments in terms of Appendix 6 of General Notice (GN) 326 (7 April 2017) of the National Environmental Management Act (NEMA) of 1998;
- Assess the document/ report in terms of its fulfilment of the Terms of Reference set;
- Consider whether the report is entirely objective;
- Consider whether the report is technically, scientifically and professionally credible;
- Consider whether the method and the study approach is defensible;
- Identify whether there are any information gaps, omissions or errors;
- Consider whether the recommendations presented are sensible and present the best options;
- Consider whether there are alternative viewpoints around issues presented in the report and if these are clearly stated;
- Consider whether the style of the report is written so as to make it accessible to non-specialists, technical jargon is explained and impacts are described using comparative analogies where necessary; and
- Report on whether normal standards of professional practice and competence have been met.

- Acceptability of the terms of reference;
- Is the methodology clearly explained and acceptable;
- Evaluate the validity of the findings (review data evidence);
- Discuss the suitability of the mitigation measures and recommendations;
- Identify any short comings and mitigation measures to address the short comings;
- Evaluate the appropriateness of the reference literature;
- Indicate whether a site-inspection was carried out as part of the peer review;
- Indicate whether the article is well-written and easy to understand; and
- Assess the acceptability of the initial reports' Terms of Reference.

3. REVIEW

3.1. General Comments

My general comments are:

- The reference literature was comprehensive and appropriate for the needs of the assessment and the project site.
- The article, in general, was compiled very well and easy to understand, with comprehensive and due consideration of the factors and impacts. In summary I am happy with the assessment and its findings.
- The report was reviewed in terms of the current minimum requirements for biodiversity assessments in terms of Appendix 6 of General Notice (GN) 326 (7 April 2017) of the National Environmental Management Act (NEMA) of 1998.
- The report fulfilled the Terms of Reference set for it.
- The report is objective in its assessment.
- The report is technically, scientifically and professionally credible;
- The method and the study approach applied to the assessment is defensible.
- Information gaps, omissions or errors were noted, and comments and correction regarding these are detailed in Item 3.2 below. It must be noted however, that those comments provided that related to ecological and/or biodiversity matters, rather than specific agricultural matters, were not included in the final version, as they have already been dealt with within the ecological assessment report.
- The recommendations presented are sensible and present the best and most suitable options.
- The degree to which alternative viewpoints around issues presented in the report exist, are stated in Item 3.2 below.
- The style of the report is written so as to make it accessible to non-specialists, technical jargon is explained and impacts are described using comparative analogies where necessary.
- The normal standards of professional practice and competence have been met.

- The terms of reference for the relevant study is appropriate for an Agricultural Impact Assessment of a develop type of this nature.
- The methodology is clearly explained and acceptable.
- The findings were certainly valid and appropriate for the project.
- The mitigation measures applied were suitable and adequate for mitigating impacts expected by the project.
- No notable shortcomings existed in the assessment.
- A site-inspection was not carried out as part of the peer review, as the project could be assessed adequately on a desktop level.

3.2. Specific Comments and Corrections

The following comments were included in the report to help improve upon areas that require better information. Should the matters already be dealt with in other specialist reports, such as the Ecological Impact Assessment, then it would not be necessary to account for it herein. The original text is included in **blue font**, with the suggested correction or comment included thereafter in black text:

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Correction: **COMPLINACE** – correct spelling to COMPLIANCE

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Identification of Risk Sources

3.1 Construction Phase

Agriculture could be affected by the construction of the solar electricity generation facility. The possible risk sources associated with the construction phase are:

- **Theft of livestock inter alia – add: and hunting/snaring**
- **Disturbance from access roads used for construction – add: increased soil loss and loss of arable land area.**
- **Establishment of workers camps, etc.**
- **Fire hazards**
- **Land potentially removed from future Land Reform applications**
- **Disturbances of and impacts on ESKOM power supply**
- **Add: Potential influx and proliferation of invasive alien species and weeds caused by disturbance;**
- **Add: Impacts on indigenous natural vegetation - degradation of grazing and browsing;**
- **Add: Impacts on water features, such as drainage lines – affects livestock drinking and ability to irrigate.**

3.2 Operational Phase

The operational phase of the expansion is also likely to affect the agricultural environment with the possible risk sources being:

- **Effect of zero sunlight on specific areas;**
- **Water runoff from panels and site into the adjacent environment;**

- Fire;
- Sense of place;
- Impact on existing agricultural activities;
- Disturbances of and impacts on Eskom power supply.
- Comment: Some solar thermal systems use potentially hazardous fluids to transfer heat. Leaks of these materials could be harmful to the environment. Is this a possibility here?
- Comment: Effect on wildlife: Displacement of wildlife, e.g. tortoises - their absence results in reduced use of vegetation and reduced burrowing, which in turn reduces valuable ecosystem services by effecting the behaviour of inter-connected species. The habitat becomes less liveable for plants and wildlife that have adapted to its specific conditions. Consequently, the altered vegetation and environment will impact on the quality of vegetation for livestock grazing.
- Add: Impacts on indigenous natural vegetation – degradation of grazing and browsing;
- Add: Impacts on water features, such as drainage lines – affects livestock drinking and ability to irrigate.

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IMPACT DESCRIPTION AND ASSESSMENT OF ISSUES IDENTIFIED ABOVE

Comments:

- Should land reform take place on this site, the nature of land use will be unknown.
- Should the land continue to be farmed as sheep and/or other livestock grazing area, the effect, whether positive or negative, will be relative to the stocking rates applied.
- Should the land be used for other purposes, then the negative effect will increase.

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Comments:

- The description of the farming practice status quo should ideally be thoroughly explained earlier in the document before 3. Identification of Risk Sources. This should be accompanied by a relatable map.
- My most significant recommendation relates to the need to represent the agricultural practices in a more relatable way, by means of mapping these spatially in a layout plan, and quantifying these impacts in hectares and %s of permanent or temporary loss.
- In addition, the layouts should depict drainage lines, soil types and vegetation types to help understand the nature and magnitude of physical impacts spatially.
- This will greatly assist in depicting the probable agricultural impacts and risks mentioned in 3 in a relatable manner.

4. CONCLUSION

Thank you for the opportunity to peer review your work, and well done with the assessment. Should you have any questions or further requirements, please do not hesitate to contact me.

Yours faithfully,

A handwritten signature in black ink that reads "Michael Wright". The signature is written in a cursive style with a horizontal line under the name.

Michael Wright Pr.Sci.Nat.; B.Sc.Agric.; Nat.Cert.Tourism Guiding
Managing Member
Sustain Ecotourism and Environmental

Enclosed:

Appendix A: Michael Wright - Sustain Shortened CV & Annex - Jan 2019

CURRICULUM VITAE

MICHAEL WRIGHT

Owner, Environmental Scientist and Ecotourism Specialist



Title: Mr
First names: Michael Standin
Family name: Wright
Date of birth: 29 December 1979
Nationality: South African
Place of residence: Durban, South Africa
Civil status: Married
Children with date of birth: 2 children –
John (c. 2008), Hannah (c. 2012)



Contact Details:

Cellphone / Mobile: + 27 83 670 1436
Fax number: + 27 86 551 5736
Email: michael@sustaincoenv.com
Website: www.sustaincoenv.com

Education:

Institution (Date From – To)	Degree Obtained
University of KwaZulu-Natal Pietermaritzburg (1998 – 2001)	BSc Agriculture (Majors: Agribusiness & Wildlife Science)

Language skills:

Language	Reading	Speaking	Writing
English (mother tongue)	Fluent	Fluent	Fluent
Afrikaans	Fair	Fair	Fair
isiZulu	Elementary	Elementary	Elementary

Professional qualifications:

- Professional Natural Scientist: Environmental Science (2018) – South African Council for Natural Science Professions (SACNASP) – Reg. No. 009205;
- B.Sc. Agriculture (Agribusiness & Wildlife Science) (2001) – University of KwaZulu-Natal Pietermaritzburg (1998 - 2001);
- Estate Agency Affairs Board – Qualified Estate Agent – Nov 2007;
- Regional Nature Guide – NQF Level 4 – KwaZulu-Natal and Mpumalanga – THETA (2003);
- Local Bird Guide – TG27 – Birdlife South Africa (2003).

Professional memberships:

- Environmental Assessment Practitioners Association of South Africa (EAPASA) – Since 2019;
- South African Council for Natural Science Professions (SACNASP) – Reg. No. 009205 – Since 2014;
- International Union for Conservation of Nature (IUCN) World Commission on Protected Areas (WCPA) Tourism and Protected Areas Specialist (TAPAS) Group – Since 2016;
- The International Ecotourism Society (TIES) – Since 2012;
- International Association for Impact Assessment (IAIAsa) – Reg. No. 3287 – Since 2012;
- Birdlife South Africa – Reg. No. 1039173 – Since 2015;
- Field Guide Association of Southern Africa (FGASA) – Reg. No. W0924 – Since 2002.

Academic honours:

- Awarded the Agricultural Economics of South Africa (AESA) National Prize for the best Under-Graduate Thesis of 2001;
- Awarded the H.I. Berhmann Book Prize for the final year BScAgric, BAgriMgt (Hons) or BCom (Hons) candidate with the best performance in Agricultural Economics or Agribusiness.

Key skills:

Ecotourism consulting skills include:

- Tourism plans for protected areas;
- Strategy and concept development for protected areas and eco-estates;
- Ecotourism and leisure property development planning and project co-ordination;

CURRICULUM VITAE

MICHAEL WRIGHT



Owner, Environmental Scientist and Ecotourism Specialist

- Tourism impact assessments;
- Business plans / feasibility studies for proposed new or existing ecotourism businesses;
- Market analysis;
- Marketing strategies and planning;
- Mentorship and assistance to stakeholders;
- Tender document coordination and preparation for concessions in public parks and reserves;
- Optimizing ecotourism guest experiences, activities and guiding;
- Hospitality operator selection, contracts and negotiation;
- Finance raising from public and private sectors in South Africa and internationally;
- Community Public Private Partnerships and Concession Agreements;
- Community-based ecotourism enterprises and empowerment strategies;
- Environmental Monitoring for lodge and resort developments;
- Vacation ownership models, advice and implementation.

Environmental consulting skills include:

- Strategic Environmental Management (SEAs, EMFs);
- Scoping and Environmental Impact Assessments (S&EIAs, BAs);
- Environmental Management Programmes (EMPs);
- Environmental Screening;
- Maintenance Management Plans (MMPs) for Protected Areas;
- Protected Area Management Plans (PAMPs);
- Environmental Monitoring;
- Natural Resource Management (NRM) programmes;
- Alien invasive identification and control measures;
- Agricultural assessments;
- Waste Management Plans (WMPs);
- Water Use Licence Applications (WULAs);
- Mammal (including Bird), Tree, Frog, Butterfly, Grass Identification.

Publications:

- Tariff Determination of Safari Lodges in South African Game Reserves using the Hedonic Pricing Method. Michael Wright.: Lambert Academic Publishing, 2017. ISDN: 978-3-330-31738-3.

Experience in the region:

Country	Date From – Date To
South Africa	Oct 2002 – Current
Mozambique	Sep 2010
Namibia	Oct 2004 – Jan 2005; Sep 2006
Botswana	Jun 2003; Oct – Nov 2003
Zimbabwe	Oct 2003
Zambia	Oct 2003
United States of America	Dec 2001 – Apr 2002

Projects experience:

Environmental Consulting		
Year	Description	Client
Strategic Environmental Assessments (SEAs)		
Aug 2018 – May 2019	Specification for Strategic Environmental Assessment for the Port of Richards Bay	Transnet National Ports Authority
Jun 2014 – Feb 2016	Strategic Infrastructure Projects 2 (SIPs 2), a Presidential Priority Project – High-level Environmental Status Quo & Recommendations Report for the Strategic Corridor Plan: Durban – Free State – Gauteng Development Region.	SMEC, on behalf of KwaZulu-Natal CoGTA
Climate Change Studies		
May – Aug 2018	Durban Climate Change Strategy – Establishment of a city status quo and recommendations to facilitate the implementation of climate change work within eThekweni Municipality, KwaZulu-Natal, South Africa.	EThekweni Municipality: EPCPD

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Environmental Consulting		
Year	Description	Client
Environmental Management Services (EMSs)		
Dec 2016 – May 2017	Environmental and master planning services for the development of a mixed-use estate at Bethel Farm, between Richmond and Ixopo, KwaZulu-Natal, South Africa.	Iman' Africa Group
Mar 2016 – Feb 2018	Dukuduku On-Site Settlement Project (Phase 2), a KwaZulu-Natal Provincial Priority Project – Environment, planning, tourism and local economic development work group secretariat; and provision of environmental and conservation expertise as part of a multi-disciplinary project management team.	LDM Consulting, on behalf of KwaZulu-Natal EDTEA
Natural Resource Management (Environmental Rehabilitation)		
Dec 2017 – present	Renishaw Estate – For the Working for Wetlands, Water and Ecosystems programmes, of the 1,833ha Mpambanyoni Conservation Development and Renishaw Estate (a mixed-use estate development) near Scottburgh, South Coast, KwaZulu-Natal, South Africa.	Department of Environmental Affairs: NRM Directorate
Environmental Impact Assessments (EIAs)		
Feb 2016 – Apr 2016	For 10 wooden pedestrian bridges in KwaDukuza Municipality, North Coast, KwaZulu-Natal, South Africa.	Mzansi Africa Civils
Oct 2012 – Oct 2016	For the proposed mixed-use Rorqual Estate Development near Park Rynie, South Coast, KwaZulu-Natal, South Africa.	Ellingham Estate (Pty) Ltd
Oct 2012 – May 2015	For the proposed Nonoti Beach Tourism Development near Blythedale, North Coast, KwaZulu-Natal, South Africa.	Grant Thornton, for Industrial Development Corporation (IDC)
Feb 2013 – May 2015	For the proposed Redcliffe Valley View Low-Cost Housing Project near Verulam, KwaZulu-Natal, South Africa.	EThekweni Municipality: HS
Environmental Monitoring		
Nov 2012 – Aug 2013	For Zimbali Lakes Golf Course Resort in Ballito, KwaZulu-Natal, South Africa.	IFA Hotels & Resorts (Pty) Ltd
Nov 2012 – May 2013	For Ridge 5 Office Block, Ridgeside Office Park in Umhlanga Rocks, KwaZulu-Natal, South Africa.	Chanter Property (Pty) Ltd
Oct 2012 – Oct 2014	For eTafuleni Low-Cost Housing Project in Phoenix, KwaZulu-Natal, South Africa.	EThekweni Municipality: HS
Environmental Screening Studies		
Sep 2018 – Oct 2018	Three studies to select a suitable site for a lithium-ion NMC precursor material production facility at a suitable Industrial Development Zone in South Africa.	Process Projects, for Industrial Development Corporation (IDC)
Sep 2017 – Jun 2018	For the greater Cutty Sark Hotel site for redevelopment into a beach and estuary resort in Scottburgh, KwaZulu-Natal, South Africa.	Premier Hotels & Resorts Group
May 2016	For a new town development node in a central region in Dukuduku near St Lucia, KwaZulu-Natal, South Africa.	LDM Consulting, for KwaZulu-Natal EDTEA
Jun 2015	For a dam reconstruction on Eden Rock Estate in Pennington, KwaZulu-Natal, South Africa.	Eden Rock Estates
Dec 2014	For the Cwaka new town centre in Msinga Local Municipality, KwaZulu-Natal, South Africa.	LDM Consulting
Sep 2014	For the Residential Eco-Estate adjacent Zimbali in Ballito, KwaZulu-Natal, South Africa.	Trencon
Mar 2013	For the Shayamoya Low-cost Housing Development adjacent the town of Kokstad, KwaZulu-Natal, South Africa.	SIMSI
Feb 2013	For the in-situ Matheni Integrated Rural Housing Development south of Nongoma adjacent to the Hluhluwe-Umfolozi Game Reserve, KwaZulu-Natal, South Africa.	SIMSI
Agricultural Potential and Soils Impact Assessments		
Nov 2017	Amended assessment for the wind turbines for the De Aar 2 North Wind Energy Facility (WEF) project, near De Aar in the Northern Cape, South Africa.	Holland & Assoc. for Mulilo Renewable Energy
Oct 2017	Specialist comment for the proposed 100MW Photovoltaic Solar Energy Facility (PV2) and associated infrastructure on the Farm Struisbult, near Copperton in the Northern Cape, South Africa.	Holland & Assoc. for Mainstream Renewable Power

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Environmental Consulting		
Year	Description	Client
Jun 2017	Specialist comment for the proposed 75-150MW Photovoltaic Solar Energy Facility (PV2) and associated infrastructure on the Farm Paarde Valley, near De Aar in the Northern Cape. Appointed by Holland & Associates ().	Holland & Assoc. for Mainstream Renewable Power
Jul 2015	Amended assessment for the proposed Longyuan Mulilio De Aar Maanhaarberg WEF facility, near De Aar in the Northern Cape, South Africa.	Holland & Assoc. for Mulilo Renewable Energy
Jun 2015	Amended assessment for the proposed Longyuan Mulilio De Aar South Wind Energy Facility, near De Aar in the Northern Cape, South Africa.	Holland & Assoc. for Mulilo Renewable Energy
Mar 2014	Amended assessment for the proposed transmission lines from Longyuan Mulilio De Aar Maanhaarberg to Longyuan Mulilio De Aar North WEF projects, near De Aar in the Northern Cape, South Africa.	Aurecon Group for Mulilo Renewable Energy
Water Use Licence Applications		
Nov 2017 – current	For a proposed 191ha mixed use development at Signal Hill, Pietermaritzburg, KwaZulu-Natal, South Africa.	SLB Consulting, for Msunduzi Local Municipality
Feb – Mar 2017	For the 240bed Radisson Blu Safari Lodge, Kruger Park the south of Kruger National Park near Malelane Gate, Mpumalanga, South Africa.	Malelane Safari Resort Investments (Pty) Ltd
Wetland Delineations and Functional Assessments		
Feb 2013	Assisted for several wetlands on the Zindophi Sugar Estate near Eshowe, KwaZulu-Natal, South Africa.	Tongaat Hulett Sugar
Jan 2013	Assisted for the proposed mixed-use luxury Rorqual Estate development near Park Rynie, South Coast, KwaZulu-Natal, South Africa.	Ellingham Estate (Pty) Ltd
Jan 2013	Assisted for the proposed Nonoti Beach Tourism Development near Blythedale, North Coast, KwaZulu-Natal, South Africa.	Industrial Development Corporation (IDC)
Feb 2013	Assisted for Corridor 9 and Corridor 1 of the proposed Integrated Rapid Public Transport Network (IRPTN) Development, which runs through north Durban, KwaZulu-Natal, South Africa.	EThekweni Municipality: Go Durban!
Specialist Plans and Reports		
Dec 2017 – Jan 2018	Facilitated a Phase 1 Heritage, Archaeological and Palaeontological Impact Assessment for the proposed new 422m long Grypoort-Klipfontein power line near Danielskuil, Northern Cape, South Africa.	Eskom
Jan 2013 – Apr 2013	Wetland rehabilitation and vegetation relocation plan for new proposed bulk sewer main line and reticulation in Wirtz Rd and Paradise Valley Nature Conservancy, Queensburgh, KwaZulu-Natal, South Africa.	EThekweni Municipality: Water & Sanitation
Faunal Assessments		
Jan 2013	Assisted with the Black-headed Dwarf Chameleon (Bradypodion melanocephalum) assessment for the proposed Nonoti Beach Tourism Development near Blythedale, North Coast, KwaZulu-Natal, South Africa.	Industrial Development Corporation (IDC)
Vegetation Surveys		
Jun 2015	Environmental Site Identification for a new teaching/learning facility on Edgewood Campus in Pinetown, KwaZulu-Natal, South Africa.	University of KwaZulu-Natal
Mar 2015	For a new proposed petrol filling station and convenience store on a site in Mbazwana, Elephant Coast, KwaZulu-Natal, South Africa	Engen
Tree Identification Assessments		
Jul 2014	For Kindlewood Estate on Umhlanga Ridge, KwaZulu-Natal, South Africa.	Tongaat Hulett Developments
May 2014	Along the entire Integrated Rapid Public Transport Network (IRPTN) Corridor 3 route from Pinetown to KwaMashu, KwaZulu-Natal, South Africa.	MCA JV
Feb 2013	Assessment, relocation and site restoration for stormwater pipeline into dam in the Ridgeside Office Park in Umhlanga Rocks, KwaZulu-Natal, South Africa.	Tongaat Hulett Developments
Jun 2013	For Izinga Ridge Estate on Umhlanga Ridge, KwaZulu-Natal, South Africa.	Tongaat Hulett Developments
Integrated Waste Management Plan		
Jan – Apr 2013	For the Msinga Local Municipality in the Valley of a Thousand Hills, KwaZulu-Natal, South Africa.	Msinga Local Municipality

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MICHAEL WRIGHT

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Ecotourism & Protected Area Consulting			
Year	Project Type	Description	Client
Nov 2018 – Jul 2019	2x Reserve Tourism Plans	Tourism Plans for Tembe Elephant Park and Ndumo Game Reserve in KwaZulu-Natal, South Africa, as part of the development of the Usuthu-Tembe-Futi Transfrontier Conservation Area.	Peace Parks Foundation
Aug 2018 – Feb 2019	Tented Lodge Sites	Sourcing and securing tented lodge sites for a luxury tent camping (glamping) development, marketing and reservations company seeking expansion into KwaZulu-Natal, Mpumalanga and Limpopo.	AfriCamps
Jun 2015 – Jan 2016	Reserve Staff Infrastructure	Project management of crack-team undertaking maintenance assessments of resort and reserve staff infrastructure in KwaZulu-Natal, South Africa.	KwaZulu-Natal Provincial Treasury
Oct 2014 – Jul 2015	Safari Lodge & Reserve	Ecotourism Business Plan for the 42bed Bhambatha Lodge and other services on the 1,700ha Ngome Community Game Reserve near Greytown, KwaZulu-Natal, South Africa.	Ezemvelo KZN Wildlife
Jan 2014 – Mar 2014	Safari Lodge	Ecotourism Business Plan for the 32bed Royal Thonga Safari Lodge adjoining the Tembe Elephant Park near Manguzi, Elephant Coast, KwaZulu-Natal, South Africa.	Royal Thonga Safari Lodge (Pty) Ltd
Aug 2014	Ecotourism Technical Workshop	Facilitated and presented at 3-day Technical Workshop for SADC stakeholders on Investment and Concessioning Guidelines for Ecotourism Opportunities in Transfrontier Conservation Areas (TFCAs).	Boundless Southern Africa / SADC / GIZ
Jun 2013 – Mar 2014	Reserve Ecotourism Infrastructure	Project management of crack-team undertaking maintenance assessments of primary resort and reserve ecotourism infrastructure in KwaZulu-Natal, South Africa.	KwaZulu-Natal Provincial Treasury
Oct 2012 – Nov 2015	Beach Resort Development	Environmental Impact Assessment (EIA) Report for the proposed Nonoti Beach Tourism Development near Blythedale, North Coast, KwaZulu-Natal, South Africa.	Grant Thornton, for the Industrial Development Corporation (IDC)
Nov 2012 – Apr 2013	Country Cultural Lodge	Environmental Pre-feasibility Study for the renovation and expansion of the Thokazi Royal Lodge near Nongoma, Zululand, KwaZulu-Natal, South Africa.	Tourism KZN, for the Zulu Monarch
Nov 2010 – Mar 2018	Safari Lodge	Project promotion, Business Plan and co-ordination of the ZAR270M, 240bed, 5-star Radisson Blu Safari Lodge, Kruger Park in a 30-year concession in the south of Kruger National Park near Malelane Gate, Mpumalanga, South Africa.	Malelane Safari Resort Investments (Pty) Ltd
May 2007 – Jan 2011	Safari Lodge	Promotion, development, Business Plan and marketing of the ZAR61M, 60bed, 5-star Shepherd's Tree Game Lodge in a 45-year concession in an exclusive-use area in the west of Pilanesberg Game Reserve, North-West, South Africa.	Shepherd's Tree Game Lodge (Pty) Ltd
Feb – Mar 2009	Game Lodge & Reserve	Development plan for Botshabelo Game Lodge & Reserve (a Provincial Heritage Site) in Middleburg, Mpumalanga, South Africa.	Botshabelo Game Lodge & Reserve (Pty) Ltd
Oct 2004 – Jan 2005	Safari Lodge & Operations Company	Business Plan for the Islands in Africa Group, based in Johannesburg, with lodges in Namibia and Botswana.	Islands in Africa Group
Nov 2004	Safari Lodge	Business Plan for the development of a safari lodge at Shongweni Dam & Game Reserve, KwaZulu-Natal, South Africa.	Msinsi Resorts & Game Reserves
Oct 2002 – Oct 2004	Tour Host & Ecotourism Consultant	<ul style="list-style-type: none"> • Host of personalised luxury tours for local and international (inbound) guests. • Development of ecotourism itineraries and an Environmental Awareness Course for clients. • Aquisition assessment for the Khutse Kalahari Lodge, Botswana. • With BirdLife South Africa: Development of the avitourism market, facilities and activities of numerous lodges for birding; and training co-ordination for birding and safari guides in Namibia and Botswana. • Development of safari guides (information booklets for guests), guest experience programmes, sightings 	Compassline Africa and Afritourism Ltd

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Ecotourism & Protected Area Consulting			
Year	Project Type	Description	Client
		checklists, room information folders and marketing brochures for several lodges.	
Oct – Nov 2001	Research Thesis	Tariff Determination of South African Game Reserves using the Hedonic Pricing Method.	University of KwaZulu-Natal
Apr 2001	Game Reserve	Integrated management plan for Bonamanzi Game Reserve, KwaZulu-Natal, South Africa.	University of KwaZulu-Natal
Sep 2000	Game Reserve & Forest	Soil survey and land evaluation for Opathe Game Reserve and the adjacent Sappi commercial forest area, KwaZulu-Natal, South Africa.	University of KwaZulu-Natal

Tourism Consulting		
Year	Description	Client
Tourism Feasibility Studies		
Mar 2016 – Apr 2017	For 18 different tourism project sites in 6 provinces throughout South Africa, as part of the Social Responsibility Implementation (SRI) programme under the auspices of the broader Expanded Public Works Programme (EPWP).	National Department of Tourism
Nov 2004	For three arts and crafts projects at KwaMashu, Inanda and Ntuzuma, KwaZulu-Natal, South Africa.	National Department of Environmental Affairs & Tourism
Aug 2004	For the Corby Hill Guest House near KwaDukuza, KwaZulu-Natal, South Africa.	Thokozani Tourism Projects
Tourism Business Plans		
Jan 2014 – Feb 2015	For the Kasito Boutique Hotel in Margate, South Coast, KwaZulu-Natal, South Africa.	Ed-Rose Group and Trade & Investment KZN (TIKZN)
Jan – Mar 2007	For a contemporary cultural lodge at Lulekani, near Phalaborwa on the Kruger National Park border, Limpopo, South Africa.	Basambilu Lodge & Tours (Pty) Ltd
Sep 2005	Market Demand Survey of a mixed-use development property adjacent to the ICC Durban, KwaZulu-Natal, South Africa.	Marshall's Property
Feb – Apr 2005	For a luxury medi-tourism hotel in Centurion, Gauteng, South Africa.	Fahrenheit Resorts CC.
Jan – Mar 2005	For a luxury business hotel at Queen Elizabeth Park in Pietermaritzburg, KwaZulu-Natal, South Africa.	Riel Associates (Pty) Ltd
Jan 2005	For Non-Wildlife and Cultural Tourism in Botswana.	Botswana Development Corporation

I hereby certify that this is an exact reproduction of the original and that there is no indication that the original has been altered by an unauthorized person.

Ed

08/05/2013

COMMISSIONER OATHS
Elizabeth Enslé Bronner 9/1/8/2 Durban
4 Pelham Crescent, La Lucia Ridge
P.O. Box 1899, Umhlanga Rocks, 4320
Tel: 031 581 1626 / Fax: 031 566 2371

1

I.D.No. 791229 5129 08 3



S. A. BURGER/S. A. CITIZEN

VAN/SURNAME

WRIGHT

VOORNAME/FORENAMES

MICHAEL STANDIN

GEBORTEDISTRIK OF LAND/
DISTRICT OR COUNTRY OF BIRTH

SOUTH AFRICA

GEBORTE DATUM/
DATE OF BIRTH

1979-12-29

DATUM UITGEREIK
DATE ISSUED

1997-11-06

UITGEREIK OP GESAG VAN DIE
DIREKTEUR-GENERAAL:
BINNELANDSE SAKE

ISSUED BY AUTHORITY OF THE
DIRECTOR-GENERAL:
HOME AFFAIRS



GEREGISTREERDE WOON- EN POSADRES

1. Bewaak die bewys van u GEREGISTREERDE WOON- EN POSADRES in hierdie sakke.

2. Indien u van adres verander het, of indien besonderhede van u huidige adres, byvoorbeeld, en/of -nommer, ens. verander het, moet die vorm VAN BEWYS VAN ADRESVERANDERING wat in die sakke aan u as identifikasiedokument is, gebruik word om die verandering aan te meld en moet dit ingesoen word by of geops word aan die relevante streeklêre distrikkantoor van die DEPARTEMENT VAN BINNELANDSE SAKE.

REGISTERED RESIDENTIAL AND POSTAL ADDRESS

1. Keep the proof of your REGISTERED RESIDENTIAL AND POSTAL ADDRESS in this pocket.

2. If you have changed your address, or, if particulars of your present address, e.g. name of street and/or street number, etc., have been changed, the NOTICE OF CHANGE OF ADDRESS form in the pocket at the back of the identity document must be used to report the change and it must be handed in at, or posted to, the nearest regional district office of the DEPARTMENT OF HOME AFFAIRS.



herewith certifies that

Michael Standin Wright

Registration number: 009205

is registered as a

Professional Natural Scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science

Effective 01 October 2018

Expires 31 March 2019



A handwritten signature in black ink, appearing to read 'Botha'.

President

A handwritten signature in black ink, appearing to read 'M. Standin Wright'.

Executive Director

EX-OFFICIO COMMISSIONER OF OATHS (SA)
LOUISE HARMON
SAIT Membership Nr: 18903765
Ex officio – TT(SA)
5 Blue Waters, Kershaw Avenue
Doonside, 4126



Harm

University of Natal

We, the Vice-Chancellor, the Registrar,
and the Dean of the Faculty,
hereby certify
that

CERTIFIED A
TRUE COPY

Michael Standin Wright

has this day been admitted to
the degree of

Bachelor of Science in Agriculture



J.A. Mungai

Acting
Vice-Chancellor

M. J. ...

Registrar

P. ...

Dean

13 April 2002

UV PROTECTED - TAMPER EVIDENT UV


**THE
AGRICULTURAL ECONOMICS
ASSOCIATION OF SOUTH AFRICA
DIE
LANDBOU-EKONOMIEVERENIGING
VAN SUID-AFRIKA**

*Best Student Essay in
Agricultural Economics
Tariff determination of South African
game reserves using the hedonic
pricing method*


*Awarded to / Toegeken aan
M Wright*

SIGNED ON BEHALF OF THE AGRICULTURAL ECONOMICS ASSOCIATION OF SOUTH AFRICA
GETEKEN NAMENS DIE LANDBOU-EKONOMIEVERENIGING VAN SUID-AFRIKA

THIS / HIERDIE *19th* DAY OF / DAG VAN *September 2002*



PRESIDENT



SECRETARY / SEKRETARIS



UNIVERSITY OF NATAL

Faculty of Science and Agriculture



HI BEHRMANN BOOK PRIZE

for

**Final year BScAgric, BAgricMgt(Hons) or
BCom(Hons) candidate with the best
performance in Agricultural Economics 790/791
or Agribusiness 790**

Michael Wright

A handwritten signature in black ink, appearing to read 'P. J. K. Zacharias', is written over a dotted line.

Professor P J K Zacharias
Dean : Faculty of Science and Agriculture

12 April 2002