

Appendix H

DETAILS OF EAP AND EXPERTISE

EAP and expertise
The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process.



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

Working for Wetlands Rehabilitation Programme: Eastern Cape

Environmental Assessment Practitioner (EAP): ¹	Aurecon South Africa (Pty) Ltd		
Contact person:	Franci Gresse		
Postal address:	PO Box 494, Cape Town		
Postal code:	8000	Cell:	
Telephone:	021 526 6022	Fax:	021 526 9500
E-mail:	Franci.Gresse@aurecongroup.com		
Professional affiliation(s) (if any)	Ms Franci Gresse has a BSc (Hons) degree in Conservation Ecology and is a member of the International Association for Impact Assessment – South Africa.		

Project Consultant:	Aurecon South Africa (Pty) Ltd		
Contact person:	Fareed Nagdi		
Postal address:	PO Box 494, Cape Town		
Postal code:	8000	Cell:	
Telephone:	012 526 5725	Fax:	021 526 9500
E-mail:	Fareed.Nagdi@aurecongroup.com		

4.2 The Environmental Assessment Practitioner

I, FRANCI GRESSE, 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;
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.

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;



Signature of the environmental assessment practitioner:

AURECON SOUTH AFRICA (PTY) LTD

Name of company:

22 APRIL 2014

Date:

Curriculum vitae: Ms FI GRESSE

Name : **GRESSE, FRANCIENA ISABELLA**
 Date of Birth : 14 March 1985
 Profession/Specialisation : Environmental Practitioner
 Years with Firm : 4
 Nationality : South African
 Years experience : 5

Key qualifications

Franci Gresse is a Senior Environmental Practitioner in the Cape Town office. She completed a Bachelor of Science and an Honours Degree in Conservation Ecology at the University of Stellenbosch. She has been involved in various environmental investigations, including Environmental Impact Assessments (EIAs), Environmental Management Plans (EMPs), Environmental Management Programmes (EMPs), rehabilitation plans and fatal flaw analysis.

Franci was involved with the South African National Biodiversity Institute's (SANBI) wetland rehabilitation programme (Working for Wetlands) for a period of three years which required the compilation of basic EIAs and rehabilitation plans. This project also won the 2012 Aurecon Chairman's Award. She has also been involved with a number of projects in the renewable energy sector; she served on the committee of the South African affiliate of the International Association for Impact Assessment (IAIA) for the Western Cape Branch from 2009 to 2011, and remains a member. She is also in the process of registering as a Professional Natural Scientist with the South African Council for Natural Scientific Professions (SACNSP).

Employment record

03/2009 - Date Aurecon, Senior Environmental Consultant
 2008 - 02/2009 Aurecon, Candidate Environmental Consultant

Experience record

Photovoltaic (PV) energy facilities near Copperton (Northern Cape Province, South Africa) 02/2013 - Date. *Project Leader.* The project entails two Environmental Impact Assessments (EIAs) for 15 75MW Photovoltaic (PV) energy facilities, located near Copperton. Responsible for the management and review of the EIA process and finances. (Mulilo Renewable Energy (MRE)).

Fatal flaw study for two potential Wind Energy Facility (WEF) sites (Northern and Western Cape Provinces, South Africa) 03/2013 - 04/2013. *Environmental Practitioner.* The study entailed a fatal flaw analysis of two potential Wind Energy Facility (WEF) sites in the Northern and Western Cape Provinces. Responsible for the assessment of the sites and compilation of the fatal flaw report. (Juwi Renewable Energies (Pty) Ltd).

Repair of flood damage to road structures in the Eden District Municipality (Western Cape Province, South Africa) 2012 - Date. *Environmental Practitioner.* The project entails the compilation of Maintenance Management Plans (MMP) for seven areas with the Eden District Management Area to repair. Compilation of MMPs, review of reports and liaison with stakeholders and authorities. (Western Cape Provincial Department of Transport and Public Works).

Richtersveld Wind Energy Facility (WEF) (Northern Cape Province, South Africa) 07/2012 - 08/2012. *Environmental Practitioner.* The project entailed a due diligence of the proposed Wind Energy Facility (WEF) to review compliance with the requirements of the Department of Energy's Independent Power Producer (IPP) process. Responsible for the review of the environmental reports and compilation of the due diligence report. (TRE Tozzi Renewable Energy S.p.A and Guma Group).

Three Photovoltaic (PV) energy facilities near Copperton (Northern Cape Province, South Africa) 09/2011 - Date. *Environmental Practitioner.* The project entailed three Environmental Impact Assessments (EIAs) for three Photovoltaic (PV) energy facilities comprising 75MW to 150MW, located near Copperton. Responsible for the management the EIA process and project specialists, compilation of scoping and EIA reports and liaison with authorities. (Mulilo Renewable Energy (MRE)).

Fatal flaw study for four potential Wind Energy Facility (WEF) sites (Northern and Western Cape Provinces, South Africa) 11/2011 - 05/2012. *Environmental Practitioner.* The study entailed a fatal flaw analysis of four potential Wind Energy Facility (WEF) sites across the Northern and Western Cape Provinces. Responsible for the management of specialists, review of reports, assessment of the sites and compilation of the fatal flaw report. (Mainstream Renewable Power South Africa).

Proposed Rehabilitation of Wetlands as Part of the Working for Wetlands (Western, Northern, Limpopo and Gauteng Provinces) 2010 - 2013. *Environmental Practitioner.* Appointed by the South African National Biodiversity Institute (SANBI) to conduct Environmental Impact Assessments (EIAs) for the rehabilitation of specific wetlands in all provinces of South Africa over a five year period. Responsible for the compilation of Basic Assessment Reports (BAR) and Wetland Rehabilitation Plans for the Western Cape, Northern Cape, Gauteng and Limpopo Provinces. Other responsibilities included liaison with authorities, public participation process, management of specialists and general project management of the environmental component of the project. (South African National Biodiversity Institute (SANBI)).

Environmental Impact Assessment (EIA) for the proposed extension of the Ash Dam facility at Kriel Power Station (Mpumalanga Province, South Africa) 2010 - Date. *Environmental Practitioner.* Appointed by Eskom to conduct an Environmental Impact Assessment (EIA) for the proposed construction of a fourth ash dam facility at the Kriel Power Station. Responsible for the general project management and finances, screening process, compilation of the scoping and EIA reports, public participation and the compilation of a waste management licence application. (Eskom Holdings).

Environmental Impact Assessment (EIA) for proposed solar energy facility, Onder Rietvlei Farm (Aurora, Western Cape Province, South Africa) 2010 - 2011. *Environmental Practitioner.* Appointed by Solaire Direct to undertake a basic environmental impact assessment process for the proposed construction of a 10 MW solar energy facility. Responsible for the compilation of the draft and final reports, public participation process, management of specialists and general project management. (Solaire Direct Southern Africa).

Environmental Impact Assessment (EIA) for proposed relocation of solar energy facility, Onder Rietvlei Farm (Aurora, Western Cape Province, South Africa) 2010 - 2011. *Project Leader.* Appointed by Solaire Direct to undertake a basic Environmental Impact Assessment (EIA) process for the proposed relocation of an approved, but not yet constructed 10 MW solar energy facility. Responsible for the management and review of the EIA process and finances. (Solaire Direct Southern Africa).

Environmental Sensitivity Study (ESS) for a proposed solar energy facility on a farm Near Aurora (Western Cape Province, South Africa) 2010. *Environmental Practitioner.* Appointed to provide and Environmental Sensitivity Study (ESS) which inter alia highlights the potential constraints ("red flags") and opportunities presented by the site from an environmental perspective. Responsible for the compilation of the ESS. (Solaire Direct Southern Africa).

Proposed remediation, rehabilitation and restoration of the Spruit, Krom, Leeu and Palmiet Rivers (Western Cape Province, South Africa) 2009 - 2010. *Environmental Practitioner.* Appointed by the Drakenstein Municipality to undertake the requisite Environmental Impact Assessment (EIA) process for the rehabilitation, remediation and stabilisation of four rivers in Paarl and Wellington. Responsible for the EIA and public participation processes. (Drakenstein Municipality).

Proposed erection of Eskom communication sirens/PA systems (Blaauwberg, Western Cape Province, South Africa) 2009 - 2010. *Environmental Practitioner.* The project entailed three Environmental Impact Assessment (EIA) processes for the (a) erection of 10 new sirens in the Parklands area, (b) the relocation of one siren in Bloubergstrand, and (c) the upgrade of five sirens on farms near Melkbosstrand. Responsible for compiling EIA reports, and the public participation process. (Eskom).

Proposed construction of a new pipeline from Bovlei Winer to Withoogte Dam (Wellington, Western Cape Province, South Africa) 2009 - 2010. *Environmental Practitioner.* The Drakenstein Municipality proposed to replace a section of the existing pipeline extending from the Withoogte Dam to the Welvanpas Reservoir near Wellington as part of the municipality's water master plan in order to improve the overall water supply. Responsible for the compilation of the Environmental Impact Assessment (EIA) report, management of specialists and the public participation process. (Drakenstein Municipality).

Overberg District Municipality: Integrated Transport Plan (ITP): strategic environmental informants (Western Cape Province, South Africa) 2009. *Environmental Practitioner.* Aurecon's Transportation Unit was appointed to revise the Integrated Transport Plan (ITP). The Environmental Unit was sub-contracted to provide environmental input. Responsible for identifying and describing the relevant informants. (Overberg District Municipality).

Annandale Commercial: development of petrol filling station on portion of Erf 5561 (Kuils River, Western Cape Province, South Africa) 2009. *Environmental Practitioner.* Appointed to compile a Construction Environmental Management Plan (CEMP) for the construction of a filling station on the corner of Gladioli Street and Amandel Drive, Kuils River. Responsible for the compilation of the project specification document as part of the CEMP. (Communicate).

Overberg District Municipality Integrated Transport Plan (ITP) strategic environmental informants (Western Cape Province, South Africa) 2009. *Environmental Practitioner.* Aurecon's Transportation Unit was appointed to revise the Integrated Transport Plan (ITP). The Environmental Unit was sub-contracted to provide environmental input. Responsible for identifying and describing the relevant informants. (Overberg District Municipality).

Environmental Impact Assessment (EIA) for the proposed Langezandt Quays development in Struisbaai Harbour (Western Cape Province, South Africa) 2008 - Date. *Environmental Practitioner.* Aurecon was appointed to undertake an Environmental Impact Assessment EIA process for the proposed development of a four storey development on Erf 848 within the Struisbaai harbour precinct. Responsible for drafting responses to the Department of Environmental Affairs' independent review report on the proposed development. (Golden Falls (Pty) Ltd).

Pre-feasibility and feasibility studies for augmenting the Western Cape water supply system (South Africa) 2008 - 2013. *Project Staff.* The Department of Water Affairs commissioned pre-feasibility and feasibility studies for the augmentation of the Western Cape water supply system through the further development of the surface water resources. Surface water schemes to be investigated were identified by the Western Cape water supply system reconciliation strategy study. Responsible for the public participation process, managing environmental specialists, and compiling a socio-economic overview of the study area. (Department of Water Affairs (DWA)).

Proposed redevelopment of the Blaauwberg Conservation Area: Eersteste Node (Western Cape Province, South Africa) 2008 - 2010. *Environmental Practitioner.* The project entailed an Environmental Impact Assessment (EIA) process for redeveloping the Eersteste Conservation Area on the West Coast. Responsible for compiling the EIA report, as well as managing specialists and the public participation process. (City of Cape Town).

Table Mountain Group aquifer feasibility study and pilot project (Western Cape Province, South Africa) 2008 - 2010. *Environmental Control Officer.* The City of Cape Town initiated a study into the Table Mountain Group Aquifer as a potential water source to augment the city's supply. The feasibility and pilot project phase Record of Decision (RoD) required completion for site-specific Environmental Management Plans (EMPs) for drilling sites that were assessed to be environmentally sensitive. Site-specific EMPs were designed for sensitive sites to ensure minimal environmental impact during the drilling phase. Responsible for monitoring compliance with the RoD and EMP during the drilling phase. (City of Cape Town).

Proposed development of apple and pear orchards on Soetmelksvlei Farm (Western Cape Province, South Africa) 2008 - 2009. *Project Staff.* This Agri-development project involved the development of 50ha of apple and pear orchards in the Riviersonderend region. Responsible for compiling the basic assessment report, Environmental Management Plan (EMP), and managing the specialists and public participation process. (BETCO).

Proposed extension of Lock Road (Kalk Bay, Western Cape Province, South Africa) 2008 - 2009. *Project Staff.* The project comprised an Environmental Impact Assessment (EIA) process for extending Lock Road to an existing erf. Involved during the final stages of the application. (Mr Rick Bartlett).

Water reconciliation strategy for the Algoa water supply area (Eastern Cape Province, South Africa) 2008 - 2009. *Environmental Practitioner.* This project provided an assessment of the environmental opportunities and constraints for a suite of water schemes in the Algoa water supply area. This was undertaken as part of a broader study in the area.

Application for rectification in terms of Section 24G of the National Environmental Management Act (NEMA) for the unlawful commencement of a fruit processing factory on Op de Tradouw Farm, Number 69 (Barrydale, Western Cape Province, South Africa) 2008 - 2009. *Environmental Practitioner.* The project consisted of an application for rectification in terms of Section 24G of NEMA. Responsible for compiling an environmental impact report and an Environmental Management Plan (EMP) for the application, as well as managing the public participation process. (Schoonies Family Trust).

C.A.P.E. Olifants-Doring Catchment Management Agency project: development of a catchment management strategy water resource protection sub-strategy for the Olifants-Doring Catchment (South Africa) 2008 - 2009. *Environmental Practitioner.* Appointed by CapeNature to compile a catchment management strategy water resource protection sub-strategy for the Olifants-Doorn catchment. Responsible for compiling a database that lists all institutions and their respective mandates in terms of water resource protection and biodiversity conservation decision making for the Olifants-Doring Catchment, workshop arrangements, and general project related work. (CapeNature).

Department of Economic Affairs, Environment and Tourism (DEAET) decision-making support (South Africa) 2008. *Project Staff.* Responsible for assisting the DEAET with the review and processing of Environmental Impact Assessment (EIA) applications in terms of the Environment Conservation Act.

Joint Maputo River Basin water resources study (Mozambique, Swaziland and South Africa) 2008. *Project Staff.* The project provided an environmental opportunities and constraints assessment of a suite of potential dams in South Africa and Swaziland, within the Maputo River Catchment. This was undertaken as part of a broader study into the catchment.

Environmental sensitivity study for the proposed Dasdrif Poultry Farm (Moorreesburg, Western Cape Province, South Africa) 2008. *Project Staff.* The project consisted of an Environmental Sensitivity Study (ESS) which, inter alia, highlighted the potential constraints (“red flags”) and opportunities presented by the site from an environmental perspective. Responsible for compiling the ESS. (Eikenhoff Poultry Farms (Pty) Ltd).

Education

2007 : BSc (Hons) Conservation Ecology, University of Stellenbosch, South Africa

Career enhancing courses

2013 : Using MS Project for EIAs, Aurecon
 2012 : Using SANBI's Biodiversity GIS datasets for EIAs, South African National Biodiversity Institute (SANBI)
 2008 : Using Natural Resources for Community Development, Gesellschaft Technische Zusammenarbeit (GTZ), South Africa

Professional affiliations

Member, International Association of Impact Assessment (IAIA)

Languages

	Reading	Writing	Speaking
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent



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

Working for Wetlands Rehabilitation Programme: Eastern Cape

Environmental Assessment Practitioner (EAP): ¹	Aurecon South Africa (Pty) Ltd		
Contact person:	Claire Blanché		
Postal address:	PO Box 494, Cape Town		
Postal code:	8000	Cell:	
Telephone:	021 526 6022	Fax:	021 526 9500
E-mail:	Claire.Blanche@aurecongroup.com		
Professional affiliation(s) (if any)	Ms Blanché has a Master of Environment and Development from the University of Natal (South Africa). Ms Blanché was a National Executive Committee member in 2010 and 2011 of IAIAAsa as well as a Provincial Committee member and Past Vice-Chair of IAIAAsa KZN.		
Project Consultant:	Aurecon South Africa (Pty) Ltd		
Contact person:	Fareed Nagdi		
Postal address:	PO Box 494, Cape Town		
Postal code:	8000	Cell:	
Telephone:	012 526 5725	Fax:	021 526 9500
E-mail:	Fareed.Nagdi@aurecongroup.com		

4.2 The Environmental Assessment Practitioner

I, CLAIRE BLANCHÉ, 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;

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.

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;

A handwritten signature in black ink, consisting of a stylized initial 'A' followed by a horizontal line and a small flourish at the end.

Signature of the environmental assessment practitioner:

AURECON SOUTH AFRICA (PTY) LTD

Name of company:

22 APRIL 2014

Date:

Curriculum vitae: Ms C BLANCHÉ

Name : **BLANCHÉ, CLAIRE**
 Date of Birth : 11 November 1977
 Profession/Specialisation : Senior Environmental Scientist
 Years with Firm : 2
 Nationality : South African
 Years experience : 12

Key qualifications

Ms Blanché is currently employed as a Senior Environmental Scientist in Aurecon's Cape Town office. She has a Master Degree in Environment and Development (including Integrated Environmental Management (IEM) Procedures, Project Management and Planning, Environmental Auditing, Environmental Law, and Rural Land and Community Development), with specialisations in Water Resources and Catchment Management. She has worked on South African projects within the Environmental Impact Assessment (EIA) process, and has a good understanding of the South African laws and regulations associated with these procedures.

In her capacity as a Lead Environmental Scientist, she has led teams of consultants, specialists and scientists, focusing specifically on large-scale linear-type developments. She has gained skills in the execution of plant rescue and rehabilitation in linear projects, and has contributed towards research and State of Environment Reporting, specifically in the fields of air quality and climate change.

Employment record

05/2012 - Date	Aurecon, Senior Environmental Scientist
08/2005 - 04/2012	Knight Piésold Consulting, Principal Environmental Scientist
01/2002 - 07/2005	JB Projects, Environmental Scientist
2002	University of KwaZulu-Natal, Research Assistant and Course Facilitator

Management experience

2005 - 2012	In her role as Principle Environmental Scientist, she led a team of six Environmental staff members in the KwaZulu-Natal division of Knight Piésold. The team included a Biodiversity Specialist, a Heritage (Anthropologist and Archaeologist) Specialist, two Junior Environmental Scientists and a Senior Environmental Scientist.
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Experience record

Horizontal dust flux monitoring for the Port of Saldanha terminal (Western Cape Province, South Africa) 10/2011 - 04/2012. *Project Leader.* This project involved the servicing of 24 horizontal dust flux monitoring stations for Transnet at their port terminal in Saldanha, and the monthly reporting on dust derived from the iron ore handling facilities. The project also included two annual audits. (Transnet Ports Terminal (TPT)).

Jack Muller Park Core Conservation Zone (CCZ), Belville (Western Cape Province, South Africa) 04/2011 - 08/2011. *Project Leader.* This project involved the compilation of a specific Environmental Management Strategy and Plan (EMS and EMP) for the operation of the Core Conservation Zone (CCZ) within the greater Jack Muller Park. The CCZ comprises the threatened Cape Flat Sand Fynbos ecosystem, and required detailed aims and objectives for fire management, recreational activity management, invasive plant control, educational opportunities, and general park maintenance activities.

Air Quality Management (AQM) training and air emissions licensing training (Western Cape Province, South Africa) 03/2011 - 06/2011. *Project Leader.* The aim of the project was to empower the Cape Winelands District Municipality in Air Quality Management (AQM) and emissions licensing in terms of the National Environmental Management: Air Quality Act (NEMAQA), enabling them to fulfil their responsibilities as air quality authorities across five local municipalities in the Cape Winelands District. (Cape Winelands District Municipality).

Extension to Parys Cemetery, Paarl (Western Cape Province, South Africa) 02/2011 - 07/2011. *Project Leader.* This project involved the Basic Assessment (BA) process and Environmental Management Plan (EMP) for the proposed extension of the Parys cemetery in Paarl. The property proposed for development was considered of biodiversity significance, and careful layout design to avoid sensitive portions was required. The extension would also impact on the unmarked graves that historically formed part of the cemetery activities.

Hillside 2 stormwater detention ponds and pipelines, Beaufort West (Western Cape Province, South Africa) 02/2011 - 07/2011. *Project Leader.* This project involved the Basic Assessment (BA) process and Environmental Management Plan (EMP) for two stormwater detention facilities (dams) and associated pipelines and culverts. The development alleviates flood risk to residential properties, as well as improves stormwater infrastructure for the town of Beaufort West.

Demolition of Athlone Cooling Towers (Western Cape Province, South Africa) 03/2010 - 08/2010. *Project Leader.* This project involved the expedient demolition of two benign cooling towers due to structural instability. Responsible for undertaking the development of an appropriate Environmental Management Plan (EMP) for the planning, demolition and clean-up of the towers. The project required the coordination of specialist teams for noise, dust and vibration mitigation, as well as the relocation of Peregrine Falcon nesting boxes, and the general Public Participation Process (PPP). This project won the Consulting Engineers South Africa's (CESA) Aon 2011 Commendation Award for projects under R50 million. (City of Cape Town).

Rehabilitation of the Western Aqueduct, Phase 1 (KwaZulu-Natal Province, South Africa) 01/2009 - 12/2010. *Project Leader.* The Western Aqueduct project is a bulk water supply project Responsible for managing the design and compilation of the Environmental Management Plan (EMP), rehabilitation strategy, rehabilitation specification and Bill of Quantities (BoQ) for the rescuing of indigenous plant materials from the proposed footprint of the 73km bulk water pipeline, and the rehabilitation of the 30m-wide corridor following construction. This project was awarded the International Association for Impact Assessment South Africa's (IAIAsa) 2011 Special Recognition Certificate for excellence in project execution. (eThekweni Water and Sanitation).

Bulk water pipeline, reticulation network and abstraction/treatment plant, Macambini (KwaZulu-Natal Province, South Africa) 2007 - 2008. *Project Leader.* The project provides potable water to agricultural and rural communities in Northern KwaZulu-Natal, and required the construction of an abstraction and treatment facility. Responsible for managing the Public Participation Process (PPP) for 170km of bulk water pipelines and reticulation networks aimed at providing treated water to previously neglected areas (in terms of infrastructure provision).

Umgeni Water pipeline specialist studies, Pietermaritzburg (KwaZulu-Natal Province, South Africa) 2007 - 2008. *Project Leader.* The project involved the potential development of an eco-estate, nature reserve and a conservation area characterised by the presence of endangered mistbelt species, including the near-extinct *Gerbera aurantiaca* (Hilton Daisy). The social aspects of the project required a holistic approach to client, authority and general public communications. Responsible for managing the biodiversity specialist study and the Public Participation Process (PPP), which formed part of the Basic Assessment (BA) process, for a water pipeline project.

School access road upgrade project, Umzumbe (KwaZulu-Natal Province, South Africa) 2007. *Project Leader.* Responsible for supervising the Basic Assessment (BA) process and associated Public Participation Process (PPP) for an access road linking rural schools with local communities.

Environmental Impact Assessment (EIA) for the Western Aqueduct (KwaZulu-Natal Province, South Africa) 01/2006 - 12/2008. *Project Leader.* Responsible for undertaking the Public Participation Process (PPP), and the scoping and Environmental Impact Assessment (EIA) processes associated with the 73km bulk water pipeline, with a diameter of 1.6m. Duties included the design of an appropriate methodology to deal with the variety of biophysical and socio-economic environments along the route; the coordination of four renowned specialist teams; the public consultation with all Interested and Affected Parties (I&AP), including government departments, stakeholders and interest groups; the liaison between the engineering design team, the client and the specialist teams; and the compilation of the relevant reports, documents and correspondence. (eThekweni Water and Sanitation).

Tyburn Boulevard water pipeline, Westville (KwaZulu-Natal Province, South Africa) 2006. *Project Leader.* Responsible for managing and undertaking the environmental scoping investigations and Public Participation Process (PPP) for a new section of water pipeline linking the Dawncliff Reservoir water supply

to the West End Office Park in Westville, KwaZulu-Natal. Also responsible for managing the associated specialist investigations for the environmental work.

Upgrading of Main Road P100, Ndwedwe (KwaZulu-Natal Province, South Africa) 2006. *Project Leader.* This project was an African Renaissance Road Upgrading Programme (ARRUP) initiative promoting development within a rural community. Responsible for managing and undertaking the environmental scoping investigations and Public Participation Process (PPP), and developing the Environmental Management Plan (EMP) for the construction and upgrade of the P100 Main Road in Ndwedwe, KwaZulu-Natal. Also responsible for managing the associated specialist investigations and compiled the environmental reports.

Five projects on intersection and pedestrian safety improvements in the Greater Durban Area (KwaZulu-Natal Province, South Africa) 2006. *Project Leader.* Responsible for supervising the environmental investigations associated with the exemption applications for five separate road projects aimed at improving intersection and pedestrian safety.

Valley of a Thousand Hills reservoir, Botha's Hill (KwaZulu-Natal Province, South Africa) 2006. *Project Leader.* Responsible for managing and undertaking the environmental scoping investigations and Public Participation Process (PPP) for the construction of a water reservoir to supplement existing bulk water infrastructure.

Upgrading of Florida Road, Somtseu Road, and Florence Nightingale Drive in Durban (KwaZulu-Natal Province, South Africa) 2006. *Project Leader.* Responsible for managing and undertaking the environmental scoping investigations and Public Participation Processes (PPPs) for three road upgrade projects in the Durban area, aimed at improving safety and relieving congestion/parking inadequacies.

Westriding Aqueduct (KwaZulu-Natal Province, South Africa) 2005. *Project Leader.* Responsible for undertaking the environmental scoping investigations, social study and Public Participation Process (PPP) for the construction and upgrading of a water supply system (pipeline and reservoirs) in the Hillcrest area.

Arlington Sawmill, Nottingham Road, Pietermaritzburg (KwaZulu-Natal Province, South Africa) 2005. *Environmental Scientist.* Responsible for managing and undertaking the environmental scoping investigation and Public Participation Process (PPP) for the relocation and upgrading of the Arlington Sawmill, including a scheduled process in terms of the Atmospheric Pollution Prevention Act (APPA). Also responsible for undertaking the specialist studies regarding air quality and noise level monitoring.

Cathedral Peak Hotel, Drakensberg (KwaZulu-Natal Province, South Africa) 2005. *Environmental Scientist.* Responsible for assisting with the compilation of the Environmental Management Plan (EMP) for the hotel and infrastructure, including recreational and mountain activities, the golf course, the sewerage works, a trout farm, a piggery and chicken farm, and surrounding wilderness management; all stakeholder engagement, client/authority liaisons, and report design and compilation.

Daimler-Chrysler Franchise and Industrial Park (KwaZulu-Natal Province, South Africa) 2005. *Project Leader.* Responsible for managing and undertaking the environmental scoping investigations and Public Participation Processes (PPPs) for projects requiring a change in landuse from agriculture to light industrial type.

Victoria Country Club Estate, Pietermaritzburg (KwaZulu-Natal Province, South Africa) 2004. *Environmental Scientist.* The project entailed the merger of the Queen Elizabeth Park, headquarters of Ezemvelo KZN Wildlife, and the Victoria Country Club; and the addition of a five-village residential and office park estate to create an exclusive wildlife, recreational, commercial and residential development. Responsible for undertaking the design and compilation for the Environmental Management Plan (EMP) for the construction and operation of the golf and wilderness estate.

Skozani aluminium recycling facility, Pietermaritzburg (KwaZulu-Natal Province, South Africa) 2004. *Environmental Scientist.* Responsible for managing and undertaking the environmental scoping investigation and Public Participation Process (PPP) for the proposed aluminium recycling facility, including a scheduled process in terms of the Atmospheric Pollution Prevention Act (APPA). Also responsible for undertaking the specialist studies regarding air quality and noise level monitoring.

Mabhobhane access road, Maphumulo, Tugela Valley (KwaZulu-Natal Province, South Africa) 2004. *Project Leader.* Responsible for managing and undertaking the environmental scoping investigation and Public Participation Process (PPP), and developing the Environmental Management Plan (EMP) for the

construction and upgrading of 13km of gravel road to provide a community access route to areas previously only reachable by four-wheel drive vehicles.

Valencia Dam, Gacemann Farm, Bergville (KwaZulu-Natal Province, South Africa) 2003. *Environmental Scientist.* Responsible for assisting with the environmental scoping investigation and Public Participation Process (PPP) for the 700 000 cubic metre farm dam; all stakeholder consultation, research, and report design and compilation.

Magabeni Community Project, Mnini (KwaZulu-Natal Province, South Africa) 2003. *Environmental Scientist.* The project's aim was to provide community skills development, food security, and income sustainability for 30 households. Responsible for managing and undertaking the environmental scoping investigation and Public Participation Process (PPP), and developed the Environmental Management Plan (EMP) for the proposed change in landuse from grazing land to irrigated agriculture, utilising treated effluent from the Magabeni Wastewater Treatment Works (WWTW).

Academic experience

University of KwaZulu-Natal, South Africa

- From 2004 to 2005, she lectured the Integrated Environmental Management Courses at the University of KwaZulu-Natal, which were designed as both modules for the Master degree in Environment and Development, and as Certificate courses for external students.
- In 2002 she served as Course Facilitator in an Introductory Course to River Rehabilitation and Planning presented to Master students at the University of Natal.

Wildlife society

- In 2011 and 2012, she lectured the component on Environmental Best Practice at the WESSA Training Course on Environmental Impact Assessment and Environmental Law (Cape Town, South Africa).

Education

2001	:	MSc Environment and Development, University of KwaZulu-Natal, South Africa
1999	:	BSc (Hons) Applied Environmental Science: Physical and Human Geography, University of KwaZulu-Natal, South Africa
1998	:	BSc, University of KwaZulu-Natal, South Africa

Career enhancing courses

2013	:	MS Projects Proficiency Course, Aurecon Project Support Office
2012	:	Certified Green Building Practitioner, Green Building Council of South Africa (GBCSA)
2012	:	Certificate in Conflict Resolution, Centre for Conflict Resolution (CCR), Cape Town, South Africa
2010	:	Certificate in Environmental Engineering, University of Stellenbosch, South Africa
2009	:	Certificate in Geographical Information Systems (GIS), Global Land Cover Facility: Global Inventory Modelling and Mapping Studies (GIMMS)
2006	:	Certificate in Environmental Law: National Environmental Management Act (NEMA), Interactive Training Dynamics (ITD)
2005	:	Certificate in Environmental Law: Environment Conservation Act (ECA), Interactive Training Dynamics (ITD)
2002	:	Certificate in River Rehabilitation and Planning, University of Natal, South Africa
2000	:	Certificate in Project Planning and Management, University of Natal, South Africa
2000	:	Certificate in Wetland Rehabilitation, University of Natal, South Africa

Professional affiliations

Interim Inaugural Member, Environmental Assessment Practitioners Association of South Africa (EAPASA)
 Lifetime Inaugural Member, Golden Key International Honour Society (GKIHS)
 KwaZulu-Natal Committee Member: Vice-Chair, International Association for Impact Assessments South Africa (IAIASA)

Elected Member of the National Executive Committee, International Association for Impact Assessments South Africa (IAIASA)

Languages

	Reading	Writing	Speaking
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Good	Good

Research projects

Mangaung Local Municipality, Environment Management Unit, Bloemfontein, 2003. "Manguang State of Environment Report". Part of the research team investigating Air Quality and Climate issues for the Manguang State of Environment Report.

Institute of Natural Resources for the Department of Agriculture and Environmental Affairs, Cedara, 2005. "KwaZulu-Natal State of Environment Report". Part of the research team investigating Air Quality and Climate issues for the KwaZulu-Natal State of Environment Report.

Water Research Commission, 2002. "South African Technical Training Manual for the Rehabilitation of Rural and Urban Rivers". Assisted in the research and development of a South African Technical Training Manual for the Rehabilitation of Rural and Urban Rivers.

Blanché, C, 2000. "The use of riparian buffer zones for the attenuation of nitrate in agricultural landscapes". MSc Compliant Thesis.

Blanché, C, 1999. "The Agri-Village Concept: is this an answer for landless rural farm communities?". Dissertation.

Honours and awards

Construction World Best Projects 2011 Award, Crown Publications, Highly Commended: Demolition of the Athlone Cooling Towers. Kayad Knight Piésold, 2011.

Consulting Engineers South Africa (CESA) Aon Engineering Excellence Awards: Commendation Award in the category for projects less than R50 million - The Demise of the Athlone Cooling Towers for the City of Cape Town Electrical Services. Kayad Knight Piésold, 2011.

International Association for Impact Assessment South Africa (IAIASa): Special Recognition Award in the Premier Award category for Excellence in Environmental Management and Project Execution - The Western Aqueduct. Knight Piésold and eThekweni Municipality 2010.

Publications

Simpson, A and Blanché C, 2005. "Air Quality and Climate". Chapter in the KwaZulu-Natal State of Environment Report: Institute of Natural Resources for the Department of Agriculture and Environmental Affairs, Cedara.

Simpson, A, Blanché C and Ryder, H, 2003. "Air Quality and Climate". Chapter in the Mangaung State of Environment Report: Mangaung Local Municipality (MLM), Environmental Management Unit, Bloemfontein.

Blanché C, and Quinn N, 2003. "The Use of Riparian Buffer Zones for the Attenuation of Nitrate in Agricultural Landscapes". Published in: A Decision Support System for Rehabilitation and Management of Riparian Systems. Report No. 1097/1/03. Water Research Commission (WRC).

Challen D, Quinn N, and Blanché C, 2003. "Assessing Riparian Habitat: An Approach for Planning Rehabilitation". Published in: A Decision Support System for Rehabilitation and Management of Riparian Systems. Report No. 1064/1/03, Water Research Commission (WRC).

Referees

Company

Kayad Knight Piésold
Knight Piésold

Contact Person

John Craig
Ian Watson

Telephone nr.

+27 21 555 0400
+27 31 276 4660