CGG Services SAS SLR Project No: 720.03122.00001 April 2023

Proposed Speculative 3D Seismic Survey off the Southeast Coast of South Africa: Draft Basic Assessment Report







QUALIFICATIONS

Postgrad Cert.	2016
Postgrad Cert.	2012

 Postgrad Cert.
 2008

 MSc
 1994

 BSc (Hons)
 1990

EXPERTISE

- Environmental and Social Impact Assessments
- EHSS Auditing
- Environmental Compliance
- Management Systems
- Due Diligence

PROJECTS

Total E&P South Africa -South Coast, South Africa

ED PERRY

OPERATIONS MANAGER

Environmental Management Planning & Approvals, South Africa

Postgraduate Certificate in Occupational Health and Safety, University of Cape Town
Postgraduate Certificate in Envionmental Law, Centre for Environmental
Management, Potchefstrom

Postgrduate Certificate in Environmental Assessment, Oxford Brookes University
MSc Applied Hydrobiology, Cardiff University
BSc (Hons) Environmental Science, Plymouth University

Ed Perry joined SLR as the Operations Manager for the Environmental Management Planning and Approvals (EMPA) team in Africa (offices in South Africa, Namibia, and Ghana). He has worked in environmental consultancy for over twenty years for a wide range of public and private sector clients.

Ed is a registered Environmental Auditor with the Institute for Environmental Management and Assessment and a Lead Auditor with the International Cyanide Management Institute. Prior to moving to South Africa in 2011 Ed worked in the UK on a wide range of projects including EIAs and Integrated Pollution and Prevention Permits. This included permitting the first hazardous waste landfill in the UK under the new integrated permitting mechanism and undertaking a study for the European Commission on the implementation of the Landfill Directive in 15 European countries. Since moving to South Africa, Ed has been involved with ESIAs and environmental authorisations throughout Africa. Ed has been Project Director / Partner in Charge of EIAs for a wide range of facilities including: New Mines and Extensions to Mines, Renewable Energy Facilities: Metal Extractive Industries: Large Water Storage

Ed has also undertaken a wide range of environmental audits including; due diligence audits, EMPR audits, and over 20 international cyanide code audits of mines throughout Africa. These audits include assessing ESHIAs, RAPs and associated documentation against the requirements of the IFC Performance Standards. Ed is a registered Environmental Assessment Practitioner with the Environmental Assessment Practitioners Association of South Africa (EAPASA).

A sample of Ed's project experience, summarised by sector, is provided below.

Oil and Gas

Ed is the Project Director for the EIA for additional exploration well drilling and associated exploration activities in Block 5/6/7, offshore South Coast, South Africa.



Shell – South Africa	Ed was the Project Manager for various environmental authorisations in South Africa associated with the Shell GUESS program. This program related to the closure and clean up of Shell service stations.
Vopak – Richards Bay, South Africa	Ed was the Project Manager for an ESIA for a new terminal operated by Vopak at Richards Bay for the handling and storage of Liquid Petroleum Gas and Clean Petroleum Products.
Vopak – Durban, South Africa	Ed was the Project Manager for an ESIA for the expansion of the Vopak terminal at Durban Docks for the handling and storage of Liquid Petroleum Gas and Clean Petroleum Products.
Bidvest – Durban South Africa	Ed was the Project Manager for an ESIA for the expansion of the Bidvest terminal at Durban Docks for the handling and storage of Liquid Petroleum Gas and Clean Petroleum Products.
ENI – East Coast, South Africa	Ed provided technical support for the EIA for regarding ENI's exploration activities off the KZN coast.
	Mining
Lucara Diamonds – Karowe Diamond Mine, Botswana	Ed is part of the SLR team acting as the Independent Technical Expert (ITE) on behalf od the lender to assess a project to expand the mine. Ed undertook the environmental and social assessment against the requirements of the Equator Principles and the IFC Performance Standards.
Kefi Minerals – Tulu Kapi Gold Mine, Ethiopia	Ed is the Technical Reviewer for an Enviornmental and Social Due Diligence review of the ESHIA and associated documents against the requirements of the IFC Performance Standards, local legisation, and best practice. This includes liaison with the Environmental Assessment Practitioners producing the ESHIA and the Lender's representatives.
Swakop Uranium – Heap Leach Project, Namibia	Ed is the Technical Reviewer and Project Director for the heap leach project, undertaking screening and subsequent ESIA for the location of a new heap leach.
Nampower – Biomass Power Plant, Namibia	Ed is the Project Director for an ESIA as part of a financing arrangement with the European Development Bank for Nampower to construct a new Power Plant using biomass from encroaching bush.
West Wits Gold Mine – South Africa	Ed is the Technical Reviewer and Project Director for an ESIA for a new gold mine in South Africa including open cast and underground mining. The application for a mining right was successful with an Environmental Authorisation being issued. A Water Use Licence is currently being applied for.
Maamba Collieries Limited – Maamba Coal Mine, Zambia	Ed was the lead auditor leading the creation and implementation of an integrated management system in accordance with the requirements of the IFC performance standards, ISO 14001, ISO 9001, and OHSAS 18001.
Eramet - Senegal	Lead Auditor for a due diligence audit of a mineral sands mining operation. The operation was the subject of a possible joint venture. The environmental audit, which included 3 days on site, was to establish if what environmental risks were involved with the project, which was just about to enter the construction phase.



Schemes, and Oil and Gas Projects;.

CURRICULUM VITAE ED PERRY

Continental Coal Limited – Penumbra, South Africa	Ed was the Lead Auditor undertaking review of EIA, EMP and site procedures against the requirements of the IFC Procedures.
Eurasian Natural Resources Corporation – Kakanda Mine, DRC	Ed was the Project Manager for the review of a Safety, Health, Environment and Community Management System for Kakanda Mine in the DRC.
Anglo-American – Polokwane Smelter, Polokwane	Ed was the Project Manager responsible for undertaking an external compliance audit for the Anglo-American Polokwane Smelter as stipulated in the slag stockpile permit for the Polokwane Metallurgical Complex. This included a review of the permit for the temporary stockpile of ash as part of the expansion of the Complex.
Ruighoek Mine, South Africa	Ed was the Project Manager for an ESIA associated with the expansion of this chromium mine in South Africa.
AngloGold Ashanti – Yatela, Sadiola, Siguri Gold Mines, Mali and Guinea	Ed was the Lead Auditor and Project Manager undertaking a re-certification audit against the requirements of the International Cyanide Code for three gold mines.
Freda Rebecca Gold Mine - Zimbabwe	Ed was the Lead Auditor and Project Manager for a gap audit to ascertain the status of the gold mine with regards to its ability to comply with the International Cyanide Code
Gold Fields Ghana – Tarkwa and Damang Gold Mines	Ed was the Lead Auditor and Project Manager undertaking a re-certification audit against the requirements of the International Cyanide Code for the two gold mines.
Goldfields, Harmony, AngloGold Ashanti – South Africa	Ed was the Lead Auditor and Project Manager undertaking a re-certification audit against the requirements of the International Cyanide Code for 5 gold mines for AngloGold Ashanti, 4 gold mines for Harmony, and a gold mine for Gold Fields.
Riversdale Capital – Zambeze Coal Mine, Zambia	Ed was the Technical Reviewer for an ESHIA for the development of the Zambeze Coal Mine on behalf of Riversdale Capital.
Confidential – proposed mine, South Africa	Ed was the Project Manager for an ESIA for a new proposed iron ore mine in South Africa. This application was withdrawn following baseline studies by specialist showing the existence of fatal flaws with regards to water use and location of the TSF.
	Industry
Dundee Precious Metals – Tsumeb Smelter, Namibia	Ed is the Project Director of an Agricultural Assessment to provide a consolidated management plan for improved agricultural land management, long term monitoring and mitigation of potential impacts.
Distell – South Africa	Ed was Project Manager for a number of projects for Distell in order to obtain various environmental authorisations for their brewing facilities including the one for the siting of a new waste water treatment works.
SPAR – South Africa	Ed was Project Manager for a number of energy projects undertaken for SPAR in South Africa including looking at Science Based Targets, Internal Carbon Pricing, and an ISO 50001 Energy Management System.

CURRICULUM VITAE ED PERRY

SCAW – South Africa.	Ed was the Project Manager for a range of Environmental Authorisations, including ESIAs, Air Emssions Licences, Water Use Licences and contaminated land assessments. These studies were undertaken for SCAW ata number of their smelter sites in Gauteng over a 5 year period.
Confidential – South Africa	Ed lead an EHS audit of a cable tie manufacturer using plastic extrusion as part of a due diligence project.
Pfizer – South Africa	Ed was the Project Manager and Lead Auditor for an EHS audit of the head offices of Pfizer in South Africa.
Sasol - Sasolburg	Ed was the Project Manager and Lead Auditor for International Cyanide Code recertification audit for the Sasol cyanide production facility at Sasolburg.
Sohar Aluminium - Oman	Ed was the Lead Auditor of Sohar Aluminium's environmental management system auditing the system against the requirements of ISO 14001 and benchmarking this facility against international requirements.
Confidential – KZN, South Africa	Lead Auditor for a due diligence audit of a white goods manufacturing company in Kwa- Zulu Natal.
Sasol – Secunda	Ed was the Lead Auditor for a third party audit of waste contractors operating on behalf of Sasol. The audit investigated compliance with South African environmental legislation and environmental best practice.
Confidential – South Africa, Kenya, UAE	Ed was the project manager for a due diligence audit of a packaging company's facilities in South Africa, Kenya and UAE.
	Infrastructure
Lesotho Highlands Development Agency - Lesotho	Ed took over as Project Manager undertaking an ESIA for the Polihali Reservoir and Western Access Road in Lesotho on behalf of the Lesotho Highlands Development Agency.
Freight Forwarders Group – Kenya and Tanzania	Ed was the Lead Auditor undertaking a re-certification audit against the requirements of the International Cyanide Code for the Freight Forwarders transportation group of companies.
Transnet Pipelines – South Africa	Ed was the Project Manager responsible for the creation and implementation of an Energy Management System for all of the pumps stations, workshops and offices for Transnet Pipelines, who pump crude oil and petroleum products from Durban to Johannesburg.
Interwaste – South Africa	Ed was the Technical Reviewer for the EIA for a new integrated waste management facility including a new landfill in South Africa against the requirments of NEMA and NEM:WA.
	Power
Nampower - Namibia	Ed is the Technical Reviewer for an ESIA for a biomass power plant that will use wood from encroacher bush in Namibia. This project is being funded by the European Investment Bank and it is therefore required to comply with the IFC Performance Standards.





ED PERRY

The UK Department for International Development is providing support to medium sized renewable energy facilities (mainly hydroelectric power plants) in Uganda through the Global Energy Transfer Feed in Tariff programme (GET FII). The project was to assess how local communities in the vicinity of these facilities could obtain power and how environmental and social safeguards for these types of facilities could be improved in the future. Ed was the lead environmental and social advisor undertaking a review of the environmental and social safeguards. Confidential - Angola Confidential - Mozambique MEMBERSHIPS IEMA Practitioner for the Institute of Environmental Management and Assessment of locations for renewable energy facilities in Angola. Registered Environmental Auditor EAPSA Registered Environmental Auditor EAPSA PUBLICATIONS • The Role of Socio-Economic Factors, Seasonality and Geographic Differences on Household Waste Generation and Composition in the City of Tshwane. 2016 (Wastcon). • EMS as a Tool for Integrated Business Risk Management. 2005 (various journals). • Golder Associates EMS Roadmap. 2004 (CD ROM). • Incentives to Encourage Recycling. 2002. Materials Recycling Week • Recycle of Life. 2002. Government Business • New Approaches to Management of Waste. 2002 (various journals) • Minimise the Waste – Maximise the Message. 2001 • Guide to Waste Reduction on Construction Sites. 1999. Construction Confederation		
Confidential - Angola Iocations for renewable energy facilities in Angola.	International Development	renewable energy facilities (mainly hydroelectric power plants) in Uganda through the Global Energy Transfer Feed in Tariff programme (GET FiT). The project was to assess how local communities in the vicinity of these facilities could obtain power and how environmental and social safeguards for these types of facilities could be improved in the future. Ed was the lead environmental and social advisor undertaking a review of the
the development of a unique renewable energy pilot facility. MEMBERSHIPS IEMA Practitioner for the Institute of Environmental Management and Assessment IEMA Registered Environmental Auditor EAPSA Registered Environmental Assessment Practitioner PUBLICATIONS • The Role of Socio-Economic Factors, Seasonality and Geographic Differences on Household Waste Generation and Composition in the City of Tshwane. 2016 (Wastcon). • EMS as a Tool for Integrated Business Risk Management. 2005 (various journals). • Golder Associates EMS Roadmap. 2004 (CD ROM). • Incentives to Encourage Recycling. 2002. Materials Recycling Week • Recycle of Life. 2002. Government Business • New Approaches to Management of Waste. 2002 (various journals) • Minimise the Waste – Maximise the Message. 2001	Confidential - Angola	
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Guide to Waste Reduction on Construction Sites. 1999. Construction Confederation		Minimise the Waste – Maximise the Message. 2001
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5



OUALIFICATIONS

2006
1995
1994

EXPERTISE

- Environmental & Social Impact Assessment
- Environmental Legislation
- Environmental Management Programmes
- · Stakeholder Engagement
- Environmental compliance & monitoring
- · Rehabilitation Planning
- Environmental Control Officer

PROJECTS

Client confidential – ESDD for a Wind Energy Facility, South Africa (2018)

Anadarko South Africa (Pty) Ltd - Environmental Due Diligence, Block 2C, West Coast, South Africa (2011)

Anadarko South Africa (Pty) Ltd - Environmental Due Diligence, Block 5/6, South-West Coast, South Africa (2011)

JEREMY BLOOD

ASSOCIATE ENVIRONMENTAL CONSULTANT

Environmental Management, Planning & Approvals, South Africa

Masters in Conservation Ecology (Stellenbosch University). Cum Laude.

Honours in Botany (Rhodes University). Academic colours.

Maiors in Botany and Zoology (Rhodes University).

Jeremy is a Senior Environmental Consultant and has been working as an Environmental Assessment Practitioner since 1999 and has project managed a number of large-scale projects covering a range of environmental disciplines, including Environmental Impact Assessments, Environmental Management Programmes, Stakeholder Engagement, Environmental Compliance and Monitoring and Environmental Control Officer related work in South Africa, Namibia, Mozambique and Kenya. Jeremy has also recently been involved in an Environmental and Social Due Diligence for a wind energy facility.

He has expertise in a wide range of projects relating to oil / gas and mining (heavy mineral mining and borrowpits), housing/industrial developments, renewables (solar PV) and infrastructure projects (e.g. roads, railway line, power lines and pipelines).

Environmental and Social Due Diligence

ESDD for a 102 MW Wind Energy Facility near Copperton in the Northern Cape, South Africa. Jeremy's role included reviewing project-related and legislative information and report writing.

Environmental Due Diligence for Licence Block 2C, West Coast, South Africa. Jeremy's role included project management, review / auditing and report writing.

Environmental Due Diligence for Licence Block 5/6, South-West Coast, South Africa. Jeremy's role included project management, review / auditing and report writing.



CURRICULUM VITAE

JEREMY BLOOD

	Oil and Gas
Searcher Geodata UK Limited – 2D/3D seismic surveys, West Coast, South Africa (2021)	EMP for speculative 2D and 3D seismic surveys off the West Coast of South Africa. Jeremy was the assistant project manager and responsible for the public participation process, specialist report review and EMP report writing.
Tullow Namibia Ltd – 3D seismic survey in PEL 90, Namibia (2021 - 2022)	EIA for a 3D seismic survey in Petroleum Exploration Licence 90 (PEL 90) in the Orange Basin off the coast of Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.
Total E&P Moçambique Area 1, Limitada – Management of Change (MOC) Procedure for Piling, Cabo Delgado Province, Mozambique (2021)	Implement MOC Procedure and prepare Screening Framework and Technical Note for the expansion of the Diver Exclusion Zone for piling. Jeremy's role included managing the MOC process, specialist input and report writing.
Total E&P South Africa B.V. Exploration well drilling in Block 11B/12B, offshore South Coast, South Africa (2020 - 2021)	EIA for additional exploration well drilling and associated exploration activities (CSEM and wave buoys) in Block 11B/12B, offshore South Coast. Jeremy's role included specialist report review and EIA report writing.
Total E and P Namibia BV – 3D seismic survey in Blocks 2912 /2913B, Namibia (2020)	EIA for a 3D seismic survey in Blocks 2912/2913B in the Orange Basin off the coast of southern Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.
Total E&P Moçambique Area 1, Limitada – Management of Change (MOC) Procedure for expansion of Resettlement Village, Cabo Delgado Province, Mozambique (2020)	Implement MOC Procedure and undertake EIA Addendum for the expansion of the Resettlement Village. Jeremy's role included managing the EIA Addendum process, specialist input and report writing.
Total E&P Moçambique Area 1, Limitada – Onshore Environmental Monitoring, Afungi Peninsula, in Palma District, Cabo Delgado Province, Mozambique (2020)	Execute environmental field surveys and manage the subsequent data for a period of one year in the onshore environment in the vicinity of the Project. Jeremy's role included overall project management.
Shell Namibia Upstream BV - Exploration well drilling in Petroleum Exploration Licence 39, Namibia (2020)	Environmental Clearance Certificate (ECC) amendment application for exploration well drilling in Petroleum Exploration Licence 39 off the coast of southern Namibia. Jeremy's role included managing the ECC amendment process and public participation process, specialist report and legal register review and EIA amendment report writing.



JEREMY BLOOD

JEREMY BLOOD

Total E&P South Africa B.V. Social Baseline and SIA related to exploration activities in Block 11B/12B. offshore South Coast, South Africa (2019 - 2020)

Social Baseline Study and Social Impact Assessment related to the impacts that exploration activities in Block 11B / 12B would have on the Mossel Bay area. Project management and review.

Windhoek PEL23 BV -Exploration well drilling in Petroleum Exploration Licence 82, Namibia (2019) EIA for the drilling of up to two exploration wells in Petroleum Exploration Licence 82 (PEL82) in the Walvis Basin off the coast of Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report

Windhoek PEL28 BV -**Exploration well drilling in** Petroleum Exploration Licence 83, Namibia (2019) EIA for the drilling of up to two exploration wells in Petroleum Exploration Licence 83 (PEL83) in the Orange Basin off the coast of Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report

Anadarko Moçambique Área 1, Lda (AMA1) -Update Area 1 EMP for the **Liquefied Natural Gas** Project in Cabo Delgado, Mozambique (2018-2019)

In June 2014 AMA1 received approval to develop the proposed LNG Project in offshore Area 1 and at the Afungi Peninsula of Cabo Delgado Province in northern Mozambique. Following project approval, the development of the project design continued through a process of optimization, resulting in further refinements to the Project Description. SLR was appointed to evaluate proposed project changes, to determine / confirm impact significance, and to update the approved EMP accordingly. Jeremy's role included the screening of project changes through an internal Management of Change Procedure to identify and evaluate the environmental implications of any changes arising from the design optimisation process, specialist report review and EMP report

Shell Namibia Upstream BV - Exploration well drilling in **Petroleum Exploration** Licence 39, Namibia (2017-2018)

EIA for the drilling of up to two deep water exploration wells in Petroleum Exploration Licence 39 off the coast of southern Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.

Spectrum Geo Limited - 3D seismic survey in the Walvis Basin, Namibia (2017)

EIA for a 3D seismic survey in the Walvis Basin of the coast of northern Namibia. Jeremy was the project manager and responsible for the public participation process. specialist report review and EIA report writing.

Afro Energy (Ptv) Ltd - Coal bed methane exploration, Free State and **Mpumalanga Provinces** (2016)

Scoping Phase of an EIA for an Exploration Right application for Petroleum and Natural Gas (Coal Bed Methane) on various farms in a portion of the Free State and Mpumalanga Provinces. Jeremy was responsible for the management and undertaking of the scoping phase, which involved managing the public participation process and writing the scoping report.

Spectrum Geo Ltd - 2D seismic survey, Namibia (2016-2017)

EIA for a 2D seismic survey in the Orange Basin off the coast of southern Namibia. Jeremy was the project manager and responsible for the public participation process, specialist report review and EIA report writing.

BHP Billiton Petroleum (South Africa 3B/4B) **Limited - Relinquishment** of Licence Block 3B/4B. West Coast, South Africa (2016)Rhino Oil & Gas **Exploration South Africa** (Ptv) Ltd - Oil and gas exploration in Licence Blocks 3617 and 3717, South-West Coast, South Africa (2015-2016) Rhino Oil & Gas **Exploration South Africa** (Pty) Ltd - Oil and gas exploration in various inshore licence blocks, South Africa (2015-2016) PGS Exploration (UK) Ltd -2D seismic survey, South Coast, South Africa (2015-2016) 2016)

Thombo Petroleum Ltd -**Exploration well drilling in** Block 2B. West Coast. South Africa (2014-2016)

CURRICULUM VITAE

Murphy Oil Corporation -Exploration well drilling in Licence Blocks 2613A and 2613B. Namibia (2014-

Cairn South Africa -**Exploration well drilling in** Licence Block 1, West Coast, South Africa (2013-2016)

Sunbird Energy Ltd -Ibhubesi Gas Project (2013-2017)

Application for a Closure Certificate and consolidated Environmental Risk Report and Closure Plan for the relinquishment of Licence Block 3B/4B (ER 12/3/23) off the West Coast of South Africa. Jeremy's role included managing the relinquishment process, report writing and liaison with the competent authority.

Scoping and EIA for exploration activities in offshore Licence Blocks 3617 and 3717 off the South-West Coast of South Africa. Exploration activities included multi-beam bathymetry and 2D/3D seismic surveys. Jeremy was the project manager and responsible for the public participation process, specialist report review and report writing.

Scoping and EIA for exploration activities in various inshore licence blocks off the South-West Coast of South. Exploration activities included multi-beam bathymetry and 2D/3D seismic surveys. Jeremy was responsible for quality control and report review.

EMP Addendum for a speculative 2D seismic survey off the South Coast of South Africa. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.

EIA and EMP Addendum for the drilling of up to five exploration wells in Block 2B off the West Coast of South Africa. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.

EIA for the drilling of up to two exploration wells in Licence Blocks 2613A and 2613B off the coast of Namibia. Jeremy was the project manager and responsible for the public participation process, specialist report review and report writing.

EIA and EMP Addendum for the drilling of up to five exploration wells in Block 1 off the West Coast of South Africa. Jeremy was the project manager and responsible for the public participation process, specialist report review and report writing.

EIA and EMP Addendum for the proposed Ibhubesi Gas Project, Western and Northern Cape, South Africa. The project involved the development of the gas field in Block 2A, which included a 430 km production pipeline (offshore and onshore) to the Ankerlig Power Station. Jeremy was the project manager and responsible for the public participation process, specialist report review and report writing.





EMP Compliance and audit services for a speculative 2D seismic survey off the South Coast of South Africa. Jeremy's role included managing the audit process and compiling the survey close-out report, which outlined the implementation of the EMP (compliance) and highlighted any problems and non-compliance issues that arose during the survey.

ExxonMobil Exploration and Production South Africa Ltd – Well drilling Roadmap and Permitting Plan, South Africa (2015) SLR was appointed to develop a high level Regulatory Roadmap and Permitting Plan for offshore exploration well drilling and associated onshore activities for ExxonMobil's South African licence areas, focusing on the Tugela South licence area off the East Coast. Jeremy was the project manager and responsible for the legal review and report writing.

Anadarko South Africa (Pty) Ltd - Exploration Right renewal for Licence Blocks 5, 6 & 7, South-West Coast, South Africa (2015) SLR was appointed to prepare an Environmental Compliance Report as part of the Exploration Right renewal for Licence Blocks 5, 6 & 7 (ER 12/3/224) off the South-West Coast of South Africa. Jeremy's role included managing the audit process and compiling the Environmental Compliance Report.

Anadarko South Africa (Pty) Ltd - Relinquishment of a portion of Licence Blocks 5, 6 & 7, South-West Coast, South Africa (2016) Application for a Closure Certificate and Consolidated Environmental Risk Report and Closure Plan for the relinquishment of Licence Blocks 5, 6 & 7 (ER 12/3/224) off the South-West Coast of South Africa. Jeremy's role included managing the relinquishment process, report writing and liaison with the competent authority.

Nabirm Energy Services -2D seismic survey compliance, Block 2113, Namibia (2014-2015) EMP Compliance and audit services for a 2D seismic survey in the offshore portion of Block 2113A in the Walvis Basin off the coast of Namibia. Jeremy's role included managing the audit process and compiling the survey close-out report, which outlined the implementation of the EMP (compliance) and highlighted any problems and noncompliance issues that arose during the survey.

ExxonMobil Exploration and Production South Africa Limited -Relinquishment of a portion of the Tugela South Block, East Coast, South Africa (2014) Application for a Closure Certificate and Consolidated Environmental Risk Report and Closure Plan for the relinquishment of a portion of the Tugela South Block off the East Coast of South Africa. Jeremy's role included managing the relinquishment process, report writing and liaison with the competent authority.

CGG Services SA - 2D seismic survey compliance, East Coast, South Africa (2014) EMP Compliance and audit services for a speculative 2D seismic survey off the East Coast of South Africa. Jeremy's role included managing the audit process and compiling the survey close-out report, which outlined the implementation of the EMP (compliance) and highlighted any problems and non-compliance issues that arose during the survey.

Murphy Oil Corporation and TGS-Nopec Geophysical Company ASA – 3D seismic survey, Licence Blocks 2613A and 2613B, Namibia (2013-2014) EIA for a proposed 3D seismic survey in Licence Blocks 2613A and 2613B, Lüderitz Basin, off the coast of Namibia. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.

SLR

Tullow Kudu Ltd - 3D seismic survey, Licence Blocks 2012B and 2112A, Namibia (2013-2014)

CURRICULUM VITAE

EIA for a proposed 3D seismic survey in Licence Blocks 2012B and 2112A, Walvis Basin, off the Coast of Namibia. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.

Shell South Africa Upstream BV - Exploration well drilling in the Orange Basin Deepwater Licence Area, West Coast, South Africa (2013-2015) EIA for the drilling of up to two deep water exploration wells in the northern portion of the Orange Basin Deepwater Licence Area off the West Coast of South Africa. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.

CGG Veritas Services (UK) Ltd – 2D seismic survey compliance, East Coast, South Africa (2013) EMP Compliance and audit services for a 2D seismic off the East Coast of South Africa. Jeremy's role included managing the audit process and compiling the survey close-out report, which outlined the implementation of the EMP (compliance) and highlighted any problems and non-compliance issues that arose during the survey.

Petroleum Geo-Services ASA – 2D seismic survey, South Coast, South Africa (2013) EMP for the proposed speculative 2D seismic survey off the South Coast of South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.

Anadarko South Africa (Pty) Ltd - Seafloor geochemical sampling programme, Licence Blocks 5/6 & 7, South-West Coast, South Africa (2013)

EMP Addendum for a seafloor geochemical sampling programme in Petroleum Licence Blocks 5/6 & 7 off the South-West Coast of South Africa. The sampling programme consisted of seafloor sampling (piston coring), seafloor heat flow measurements and a possible multi-beam bathymetry survey to refine target locations for seafloor sampling. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.

Anadarko South Africa (Pty) Ltd - Exploration programme, Licence Block 2C, West Coast, South Africa (2012-2013) EMP for a proposed exploration programme in Block 2C off the West Coast, South Africa. The exploration programme included 2D/3D seismic surveys, multi-beam bathymetry survey, seafloor sampling and seafloor heat flow measurements. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.

Impact Africa Limited -Exploration programme, Tugela North, East Coast, South Africa (2012-2013) EMP for a proposed exploration programme in the Tugela North area off the East Coast of South Africa. The exploration programme included Airborne geophysical acquisition (gravity and magnetics), 2D/3D seismic surveys, seafloor heat flow measurements, multi-beam bathymetry survey and seafloor sampling. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.

Sasol Petroleum International (Pty) Ltd – 2D seismic survey, Durban and Zululand Basins, East Coast, South Africa (2012) EMP for a proposed 2D seismic survey programme in the Durban and Zululand Basins off the East Coast of South Africa. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.

Petroleum Geo-Services ASA – 2D seismic survey, South and East Coasts, South Africa (2012) EMP for the proposed speculative 2D seismic survey off the South and East Coast of South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.



EMP Amendment for the 3D seismic survey campaign in Block 1off the West Coast of South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.
EIA for a 2D seismic survey in various Blocks in the Lüderitz and Walvis Basin offshore areas, Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.
EMP Amendment for a 2D seismic survey in the Pletmos Inshore Area off the South Coast of South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.
EMP for a speculative 2D seismic survey off the East Coast of South Africa. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.
EMP for a speculative 2D seismic survey off the West Coast of South Africa. Jeremy was the project manager and responsible for the public participation process, specialist report review and EMP report writing.
EIA for a proposed 2D and 3D seismic survey in Block 2914B off the coast of Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.
EMP for a 2D/3D seismic survey campaign in Blocks 5 & 6 off the South-West Coast of South Africa. Jeremy's role included managing the EMP process and public participation process, specialist report review and EMP report writing.
EIA (including EMP for a proposed 3D seismic survey programme in the southern Orange Basin (Licence Blocks 2713A/2713B and 2815) off the coast of Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.
EIA for a proposed 3D seismic survey programme in the central Walvis Basin (Licence Blocks 2112B/2212A) and southern Orange Basin (Licence Blocks 2813A/2814B) off the coast of Namibia. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.

Basic Assessment and EMP for the drilling of up to six exploration wells in Block 1

(ER83) off the West Coast of South Africa. Jeremy's role included managing the Basic

Assessment process and public participation process, specialist report review and



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Bayfield Energy Ltd – 2D seismic survey, Pletmos Inshore Area, South Coast, South Africa (2010) EMP for a 2D seismic survey in the Pletmos Inshore Area off the South Coast of South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.

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Silver Wave Energy (Pte) Ltd- 2D seismic survey, Tugela South, East Coast, South Africa (2010) EMP for a 2D seismic survey in the Tugela South area (Blocks 2931C, 2931D, 2932A and 2932C) off the East Coast of South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.

BHP Billiton Petroleum – Seismic surveys and well drilling, Block 3A/4A, West Coast, South Africa (2009-2010) EMP amendment for conducting seismic surveys and exploration well drilling in Petroleum Licence Block 3A/4A, West Coast, South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.

PetroSA (Pty) Ltd – Performance Assessments, South Coast, South Africa (2009) Compilation of offshore performance assessments for Block 9, Block 11a, F-A Gas Field, E-M Gas Field, South Coast Gas (SCG) Gas Field, Sable Oil Field and Oribi (E-BT)/Oryx (E-AR) Oil Fields. Jeremy's role included managing the audit process and compiling the Performance Assessment report, which outlined the implementation of the EMP (compliance) and highlighted any problems and non-compliance issues.

PetroSA (Pty) Ltd – F-O Gas Field development, South Coast, South Africa (2008-2012) EIA and EMP for the development of the F-O Gas Field in Petroleum Licence Block 9, South Coast, South Africa. The project included the drilling of up to 14 production wells in the F-O Gas Field and connecting the gas field to the existing F-A Platform via a new approximately 39 km subsea production pipeline. Jeremy's role included managing the EIA/EMP and public participation process, specialist report review and EIA report writing.

PetroSA (Pty) Ltd – 3D seismic survey, Block 1, West Coast, South Africa (2008) EMP for a 3D seismic survey in Block 1 (ER83) off the West Coast of South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.

Forest Exploration International (SA) (Pty) Ltd - Ibhubesi Gas Field development (2006-2007) EIA and EMP for the proposed development of the Ibhubesi Gas Field and associated infrastructure in License Block 2A off the west coast of South Africa. The project involved the drilling of 99 wells and a 110 km production pipeline to an onshore gas receiving facility. Jeremy's role included managing the EIA/EMP and public participation process, specialist report review and report writing.

PetroSA (Pty) Ltd – Well close-our report, E-M Gas Field, South Coast, South Africa (2005) Close-out report for a workover on well E-M03P in the E-M mining lease off the South Coast of South Africa. Jeremy was responsible for report writing.

PetroSA (Pty) Ltd – South Coast Gas development project, Licence Block 9, South Coast, South Africa (2004-2006) EIA and EMP for the development of the South Coast Gas project in Petroleum License Block 9 off the South Coast of South Africa. Jeremy was responsible for specialist report review and report writing.



report writing.

PetroSA (Pty) Ltd -

Africa (2010-2011)

Exploration well drilling.

Block 1, West Coast, South

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	Mining
Gecko Cobalt Mining (Pty) Ltd - Opuwo Cobalt Project, Opuwo, Kunene Region, Namibia (2019)	EIA for the proposed Opuwo Cobalt Project Near Opuwo in the Kunene Region of Namibia. Based on the results of exploration drilling undertaken since 2017, Gecko is proposing to apply for a Mining Licence (ML) to mine the ore (copper and cobalt mineralisation) through a combined open-pit and underground mine and to process this material on site within the proposed ML area, which is located within EPL 4346. Jeremy's role included managing the EIA and public participation process, specialist report review and EIA / EMPr report writing.
Belton Park Trading 127 (Pty) Ltd - Offshore diamond mining in Sea Concessions 2c and 3c, the West Coast, South Africa (2018)	Amendment application to expand the approved diamond mining target area within Sea Concession 2C, as well as the Mining Right area to include Sea Concession 3C. Jeremy's role included managing the EIA and public participation process, specialist report review and EIA / EMPr report writing.
Velddrift Salt Company (Pty) Ltd –Salt mine, Velddrift, South Africa (2018)	Update the Financial Provision for the salt mine on Portion 69 of Farm 110 near Velddrift, Western Cape, South Africa. Jeremy's role included project management, client liaison and report review.
Alexkor RMC Pooling and Sharing Joint Venture – EMP amendment for mining rights, West Coast, South Africa (2017-2018)	EMP Amendment for Mining Rights 554MRC, 10025MR, 512MRC and 513MRC (diamonds) located off the West Coast of South Africa, situated roughly between Kleinzee and Port Nolloth. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.
Velddrift Salt Company (Pty) Ltd –Salt mine, Velddrift, South Africa (2012)	EMP amendment for a salt mine on Portion 69 of Farm 110 near Velddrift, Western Cape, South Africa. Jeremy's role included managing the EMP and public participation process, specialist report review and EMP report writing.
Green Flash Trading 251 & 257 (Pty) Ltd - Mineral prospecting, West and South-West Coasts, South Africa (2012)	EMP amendment for the prospecting for minerals off the West and South-West Coast of South Africa. Jeremy was responsible for report writing.
Umhlaba Environmental Consulting CC – Sand mine rehabilitation, Macassar, South Africa (2011)	EMP for the rehabilitation of Afrisam's Sand Mine in Macassar, Western Cape, South Africa. Jeremy's role included managing the EMP process, specialist report review and EMP report writing.
White Water Resources Limited – Heavy mineral prospecting, Namaqualand, South Africa (2009)	EMPs for ten prospecting applications in an area north of the Olifants River. Namaqualand, South Africa. Jeremy's role included managing the EMP process, specialist report review and EMP report writing.
Coega Brick – Brickworks, Eastern Cape, South Africa (2003)	EMP amendment for operations at the Coega Brick brickworks. Jeremy was responsible for report writing.



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of Transport and Public

Bredasdorp Road Upgrade Project, Western Cape,

Works – Gansbaai-

South Africa (2014)

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Corridor Sand Limitada - Corridor Sands Heavy Mineral Mining Project, Gaza Province, Mozambique (1999-2002)	EIA and EMP for the Southern Mining Corporation's Corridor Sands Heavy Mineral Mining Project, Gaza Province, Mozambique. Jeremy's role included managing the EIA/EMP and public participation process, specialist report review and report writing.
Kenmare Resources - Moma Titanium Minerals Project in Nampula Province, Mozambique (2002)	EMP for the Kenmare Moma Titanium Minerals Project in Nampula Province, Mozambique. Jeremy was responsible for EMP report writing.
Southern Mining Corporation Ltd - Corridor Sands Heavy Mineral Mining Project, Gaza Province, Mozambique (1999-2002)	Vegetation and floristics specialist report for the Corridor Sands EIA, Gaza Province, Mozambique. Jeremy undertook the baseline assessment and compiled the vegetation and floristics report.
BESC Consulting – Quarry, Willowvale, Transkei (1999)	Biological survey for a quarry near Willowvale in the Transkei. Jeremy compiled the biological survey report.
	Roads and related infrastructure
HHO Africa for the City of Cape Town - Broadway Boulevard Dualling Project, Western Cape, South Africa (2016)	Basic Assessment for stormwater infrastructure required as part of the Broadway Boulevard Dualling Project, Strand, Western Cape. Jeremy's role included managing the Basic Assessment and public participation process, specialist report review and report writing.
HHO Africa for WCG: Dept. of Transport and Public Works – Gansbaai- Bredasdorp Road Upgrade Project, Western Cape, South Africa (2016-2017)	Closure application for seven borrowpits used during Phase 3 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape. Jeremy's role included managing the closure application process, report writing and liaison with the competent authority.
HHO Africa for WCG: Dept. of Transport and Public Works – Phase 3 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape, South Africa (2013- 2015)	ECO for the third phase of construction (km 7.8 to km 36.0) of the road between Gansbaai and Bredasdorp, Western Cape. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.
HHO Africa for WCG: Dept.	Basic Assessment for a causeway near Elim and a box culvert near Baardskeerdersbos

/ Pearly Beach Intersection, Western Cape. Jeremy's role included managing the Basic

Assessment and public participation process, specialist report review and report



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EFG Engineers (Pty) Ltd for WCG: Dept. of Transport and Public Works – Hermanus – Stanford Road Upgrade Project, Western Cape, South Africa (2013-2014)	Basic Assessment for the upgrading of Trunk Road 28 Section 2 (TR28/2) between Hermanus and Stanford, Western Cape. Jeremy's role included managing the Basic Assessment and public participation process, specialist report review and report writing.
HHO Africa (Pty) Ltd – Borrowpits for the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape, South Africa (2012)	Screening, Basic Assessment and EMP for nine proposed borrowpits for Phase 3 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape. Jeremy's role included managing the Screening, Basic Assessment and public participation process, specialist report review and report writing.
Bergstan South Africa for WCG: Dept. of Transport and Public Works – Repair of flood damaged bridges, Western Cape, South Africa (2010)	Basic Assessment for the repair of two flood damaged bridges in the Worcester and De Doorns area. Jeremy's role included managing the Basic Assessment process and report review.
HHO Africa for WCG: Dept. of Transport and Public Works –Phase 3 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape, South Africa (2010)	EMP for Phase 3 borrowpits required for the Gansbaai-Bredasdorp Road Upgrade Project. Jeremy acted as the project manager and was responsible for compiling the EMP.
HHO Africa for WCG: Dept. of Transport and Public Works – Phase 2 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape, South Africa (2009- 2010)	ECO for the second phase of construction (km 0 to km 7.8) of the road between Gansbaai and Bredasdorp, Western Cape. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.
PD Naidoo & Associates (Pty) Ltd for WCG: Dept. of Transport & Public Works – Borrowpit development, Overberg District, South Africa (2006-2008)	EMP for the development of 17 strategic borrowpits for the regravelling of trunk-, main- and divisional roads in the Overberg District. Jeremy's role included managing the EMP and public participation process, specialist report review and report writing.
BKS (Pty) Ltd / Goba (Pty) Ltd JV for WCG: Dept. Transport and Public Works – Bridge and culvert rehabilitation, Western Cape, South Africa (2006-	ECO for the rehabilitation of bridges and major culverts in the Calitzdorp, Oudtshoorn and De Rust area. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.



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HHO Africa for WCG: Dept. of Transport and Public Works –Phase 2 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape, South Africa (2010)	EMP for Phase 2 of Gansbaai-Bredasdorp Road Upgrade Project. Jeremy acted as the project manager and was responsible for compiling the EMP.
BKS (Pty) Ltd / Goba (Pty) Ltd JV for WCG: Dept. Transport and Public Works – Bridge and culvert rehabilitation, Western Cape, South Africa (2005)	Construction EMP for the rehabilitation of bridges and culverts in the Calitzdorp, Oudtshoorn and De Rust area. Jeremy acted as the project manager and was responsible for compiling the EMP.
HHO Africa for WCG: Dept. of Transport and Public Works – Phase 1 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape, South Africa (2009- 2010)	ECO for the first phase of construction of the road between Gansbaai and Bredasdorp, Western Cape. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.
HHO Africa for WCG: Dept. of Transport and Public Works –Phase 1 of the Gansbaai-Bredasdorp Road Upgrade Project, Western Cape, South Africa (2010)	EMP for Phase 1 borrowpits required for the Gansbaai-Bredasdorp Road Upgrade Project. Jeremy acted as the project manager and was responsible for specialist report review and compiling the EMP.
MBB Engineers – Kat River Causeway, Eastern Cape, South Africa (2000)	Scoping study for the upgrading of a causeway over the Kat River, Fairbairn, Eastern Cape. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.
Prestedge, Retief, Dresner & Wijnberg – Ngqura harbour dune stabilisation, Eastern Cape, South Africa (1999)	Stabilisation specifications for work areas and roads within the proposed Ngqura (ex Coega) harbour area. Jeremy was responsible for report writing.
	Renewables
Kokerboom Solar Generation (Pty) Ltd – Kokerboom Solar Project, Keetmanshoop, Namibia	Scoping study for a solar (photovoltaic) power plant, near Keetmanshoop, Namibia. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.

2008)

report writing.

Scoping study for the proposed Development of Skeyfontein Photovoltaic power plant

and power lines near Postmasburg, Northern Cape. Jeremy's role included managing

the Scoping and public participation process, specialist baseline report review and

(2016)

2012)

Solarhybrid AG, Germany -

Skeyfontein Photovoltaic

Cape, South Africa (2011-

Power Plant, Northern

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Business Venture Investments 1421 (Pty) Ltd - De Aar Photovoltaic Power Plant, Northern Cape, South Africa (2011- 2012)	EIA for the proposed Development of a Photovoltaic power plant and power line near De Aar & Prieska, Northern Cape. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.
IlangaPower (Pty) Ltd - Solar Cell Manufacturing Factory, Western Cape, South Africa (2008)	Basic Assessment for a proposed Solar Cell Manufacturing Factory, Sacks Circle, Bellville. Jeremy's role included managing the Basic Assessment process and public participation process, specialist report review and report writing.
	Landfill sites and waste water treatment works
V3 Consulting Engineers - Bedford sewage works upgrade, Eastern Cape, South Africa (1999)	Scoping study for Phase II of the upgrading of the Bedford reticulation system and current sewage works. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.
V3 Consulting Engineers - Bedford sewerage reticulation system, Eastern Cape, South Africa (1999)	Scoping study for the construction of a waterborne sewerage reticulation system in Nyarha and Goodwin Park, Bedford, and for the rehabilitation and upgrading of the sewerage treatment works. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.
Department of Public Works - Hole-in-the-Wall car park and ablution facilities, Eastern Cape, South Africa (1999)	Scoping study for the proposed car park and ablution facilities at Hole-in-the-Wall. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.
Department of Public Works – Coffee Bay car park and ablution facilities, Eastern Cape, South Africa (1999)	Scoping study for the proposed car park and ablution facilities at Coffee Bay. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.
	Water and sewage pipelines
SAB Maltings (Pty) Ltd – Water Supply Augmentation Project, Caledon, South Africa (2020)	ECO for the SAB water pipeline to augment the supply of water to the SAB Maltings plant in Caledon. Jeremy was responsible for overall project management and QA/QC.
SAB Maltings (Pty) Ltd – Water Supply Augmentation Project, Caledon, South Africa	Basic Assessment for water supply augment project to ensure continued uninterrupted operation at the maltings plant. The project included a borehole and 12 km pipeline. Jeremy's role included managing the Basic Assessment and public participation process, specialist report review and report writing.

Velddrift Salt Company (Pty) Ltd – Seawater Augmentation Project, Velddrift, South Africa (2003-2009)	Scoping study, EMP and ECO for a seawater pump station and pipeline to augment water supply to the Velddrift Salt Company's operation north of Laaiplek, Western Cape. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing. Jeremy also acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.
City of Cape Town: Tygerberg Region - Durbanville North Bulk Water Supply Project, Western Cape, South Africa (2004-2005)	ECO for the Durbanville North Bulk Water Supply (Gravity Main Phase 2). Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.
	Rivers, dams and wetlands
Royal HaskoningDHV (Pty) Ltd for City of Cape Town - Phase 1H of the Lourens River Flood Alleviation Project, Western Cape, South Africa (2016-2018)	ECO for Phase 1H of the Lourens River Flood Alleviation project, Western Cape. Jeremy acted as the project manager.
Royal HaskoningDHV (Pty) Ltd for City of Cape Town - Phase 1G of the Lourens River Flood Alleviation Project, Western Cape, South Africa (2015)	ECO for Phase 1G of the Lourens River Flood Alleviation project, Western Cape. Jeremy acted as the project manager.
Royal HaskoningDHV (Pty) Ltd for City of Cape Town - Lourens River Stormwater Outlets, Litter Traps and Detention Pond, Western Cape, South Africa (2015)	Basic Assessment for Lourens River Stormwater Outlets, Litter Traps and Detention Pond, Somerset West. Jeremy's role included managing the Basic Assessment and public participation process, specialist report review and report writing.
SSI Engineers and Environmental Consultants (Pty) Ltd for City of Cape Town- Phase 1E of the Lourens River Flood Alleviation Project, Western Cape, South Africa (2011-2012)	ECO for Phase 1E of the Lourens River Flood Alleviation project, Western Cape. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.



(2019)

Environmental Consultants

(Ptv) Ltd for City of Cape

Town- Phase 1E of the

Lourens River Flood Alleviation Project, Western Cape, South Africa

SSI Engineers and

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ECO for Phase 1D of the Lourens River Flood Alleviation project, Western Cape. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction FMP

(2008-2010) Suiean Investments (Ptv) Ltd - Kuils River Flood Alleviation Project, Western Cape, South Africa (2010-2011)

Basic Assessment for the proposed Kuils River flood alleviation measures for Erf 38771. Bellville. Jeremy's role included managing the Basic Assessment and public participation process, specialist report review and report writing.

Nsele Trading 44 (Pty) Ltd -Retention ponds, Western Cape, South Africa (2004-2006)

Scoping study for the proposed diversion of a canalised stream into three new retention ponds on the remainder of farm 1407, Sunnydale (Noordhoek). Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.

General industries

Mortar SA (Pty) Ltd - Premixed dry mortar facility, Western Cape, South Africa (2018-2019)

SLR was appointed to facilitate the Atmospheric Emission Licence (AEL) application process to the West Coast District Municipality and associated pubic participation process. Jeremy's role included managing the AEL and public participation process, specialist report review (Atmospheric Impact Report) and compilation of the Public Participation Report.

Irvin & Johnson Limited -**Abalone Processing** Facility, Western Cape, South Africa (2017-2019) Basic Assessment for an abalone processing facility at Danger Point near Gansbaai. Jeremy acted as the project manager and was responsible for report review.

Irvin & Johnson Limited -Abalone Expansion Project, Gansbaai, Western Cape. **South Africa** (2017-2019)

EIA for an abalone expansion project at Danger Point near Gansbaai. The project involved expanding the facility's production from 500 tons per annum (t/a) to 1 700 t/a. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.

Clay Industry cc -**Atmospheric Emission** Licence application (2015) Atmospheric Emission Licence amendment application in terms of the National Environmental Management: Air Quality Act. Jeremy acted as the project manager and was responsible for compiling the amendment application.

Irvin & Johnson Limited -Offshore aquaculture Project, Western Cape, South Africa (2007-2009)

Basic Assessment for an aquaculture project in Mossel Bay. The project involved the develop of 18 floating flexible type cages within a concession area off the coast of Mossel Bay to produce indigenous line fish (namely yellow tail, dusky cob and silver cob). Jeremy's role included managing the Basic Assessment process and public participation process, specialist report review and report writing.

Eskom Holdings Limited -Atlantis and Mossel Bay Open Cycle Gas Turbines, Western Cape, South Africa (2006-2008) (2006-2009) (2000-2001) (2001)**Electricity Supply**

Environmental compliance audits for the Atlantis and Mossel Bay Open Cycle Gas Turbines. Jeremy's role included managing the audit process and compiling the audit report, which outlined the implementation of the EMP (compliance) and highlighted any problems and non-compliance issues that arose during construction.

Velddrift Salt Company (Pty) Ltd -Mining Right conversion application, Western Cape, South Africa

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Conversion application from an old order mining right from the Velddrift Salt Company's saltworks. Jeremy acted as the project manager and was responsible for the conversion application and EMP report writing.

PetroSA (Pty) Ltd -**Refinery Conversion** Project, Western Cape. South Africa (2003-2005) EIA for the conversion of the PetroSA Refinery, near Mossel bay, for 100% unleaded fuel production. Jeremy's role included managing the EIA process and public participation process, specialist report review and EIA report writing.

East London Development Zone Corporation - East London IDZ, Eastern Cape

EIA for the rezoning of land from Agriculture to General Industry for the establishment of the East London Industrial Development Zone. Jeremy was responsible for managing the public participation process, specialist report review and report writing.

East London Development Zone Corporation - East London IDZ, Eastern Cape

Vegetation survey and sensitivity map of the land on the West Bank for the East London Industrial Development Zone. Jeremy undertook the baseline assessment and compiled the vegetation and floristics report.

Coega Development Corporation - Coega IDZ, Eastern Cape (1999-2000) EIA for the Rezoning of the Core Development Area from Agriculture to Special Purposes for the establishment of the Coega Industrial Development Zone. Jeremy was responsible for managing the public participation process, specialist report review and report writing.

Power lines

Corporation of Malawi -Mwanza to Pombeya Power line, Malawi (2003)

Scoping study for the Mozambique - Malawi 220km interconnection 220 / 400kV power line from Mwanza to the substation at Pombeya, Malawi. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.

Eskom. East London IDZ power line, Eastern Cape, South Africa (2002)

Scoping study for construction and operation of the East London Industrial Development Zone power line. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.

Eskom. Trollip power line, Eastern Cape, South Africa (2002)

Scoping study for construction and operation of Eskom's Trollip scheme (22kV power line), Cape St. Francis, Eastern Cape. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.

Kenmare Resources. **Kenmare Moma Power line** (2002)

Vegetation and floristics specialist report: Kenmare Moma Power line Environmental Impact Assessment, Nampula Province, Mozambique. Jeremy undertook the baseline assessment and compiled the vegetation and floristics report.





Corridor Sands Limitada. EIA for the SMC Corridor Sands Power Line from Chibuto to Maputo, Gaza Province, Corridor Sands Power Line. Mozambique. Jeremy was the project manager and responsible for the EIA and public Gaza Province. participation process, specialist report review and EIA report writing. Mozambique (2001-2002) Corridor Sands Limitada. Corridor Sands Limitada, Vegetation and floristics specialist report: Corridor Sands Corridor Sands Power Line. Power line Environmental Impact Assessment, Mozambique. Jeremy undertook the Gaza Province, baseline assessment and compiled the vegetation and floristics report. Mozambique (2001) Eskom, Poseidon - Albany Vegetation survey of the corridor for the proposed Eskom 400kV power line between power line, Eastern Cape, Poseidon and Albany substations, Eastern Cape. Jeremy undertook the baseline South Africa (2002) assessment and compiled the vegetation and floristics report. Railways Corridor Sands Limitada -EIA for the Corridor Sands Rail link from Chibuto to Barragem, Gaza Province, **Corridor Sands Railway** Mozambique. Jeremy was the project manager and responsible for the EIA and public line, Gaza Province, participation process, specialist report review and EIA report writing. Mozambique (2001) Corridor Sands Limitada -Vegetation survey of the Corridor Sands Rail link from Chibuto to Barragem, Gaza **Corridor Sands Railway** Province, Mozambique. Jeremy undertook the baseline assessment and compiled the vegetation and floristics report. line, Gaza Province. Mozambique (2001)

Housing Developments

South African Dutch Development (Pty) Ltd -Beverley Estate and Jubilee Park residential developments, Western Cape, South Africa (2012) ECO services for the residential development on Erf 1366 (Beverley Estate) and Erf 5540 (Jubilee Park), Eerste River. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.

Cape Town Community Housing Company (Pty) Ltd - Morgen's Village 3 and Westcape residential developments, Western Cape, South Africa (2012) ECO services for the Morgen's Village 3 and Westcape Precincts, Mitchell's Plain. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.

City of Cape Town (Human Settlements) – Phase 2 to 4 of the Bardale Housing Scheme, Western Cape, South Africa (2009-2012) ECO for the construction of the Bardale Housing Scheme (Phases 2 to 4) on the Remainder of the Farm Stellenbosch No. 451 (Bardale), Mfuleni. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction



JEREMY BLOOD

Sovereign Seekers Investments 77 (Pty) Ltd – Karbonkelberg Housing Development, Western Cape (2007-2012) Basic Assessment for the proposed rezoning and subdivision of Erf 4870, Karbonkelberg, Hout Bay. Jeremy's role included managing the Basic Assessment process and public participation process, specialist report review and report writing.

Hope of Africa Foundation

– Eerste River housing
development, Western
Cape, South Africa (20072008)

Basic Assessment for the proposed rezoning and subdivision of Erf 5540, Eerste River. Jeremy's role included managing the Basic Assessment process and public participation process, specialist report review and report writing.

City of Cape Town (Directorate: Human Settlements) – Driftsands Housing Project (2006-2012) EIA for the proposed rezoning and subdivision a portion of the Driftsands Nature Reserve to consolidate and upgrade the existing informal settlements of Green Park and Los Angeles. Jeremy was the project manager and responsible for the EIA and public participation process, specialist report review and EIA report writing.

Tech-Sure Fin cc – Eerste River rezoning and subdivision, Western Cape, South Africa (2006-2007)

Basic Assessment for the proposed rezoning and subdivision of Erf 1366, Eerste River. Jeremy's role included managing the Basic Assessment process and public participation process, specialist report review and report writing.

City of Cape Town (Human Settlements) – Phase 1 of the Bardale Housing Scheme, Western Cape, South Africa (2005-2007) Construction EMP and ECO for the construction of the Bardale Housing Scheme on the Remainder of the Farm Stellenbosch No. 451 (Bardale), Mfuleni. Jeremy compiled the EMP and acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.

Target Shelf 151 cc – Hout Bay rezoning and subdivision, Western Cape, South Africa (2005-2006) EIA for the proposed rezoning and subdivision of Erf 1480, Hout Bay. Jeremy was the project manager and responsible for the EIA and public participation process, specialist report review and EIA report writing.

Ahmed Janahi Architects – Hout Bay hotel development, Western Cape (2004-2005) EIA for the proposed rezoning and consolidation of Erf 1126, 1127 and 1128 for the development of a hotel, Hout Bay. Jeremy was the project manager and responsible for the EIA and public participation process, specialist report review and EIA report writing.

Hope of Africa Foundation

– Eerste River housing
development, Western
Cape, South Africa (20042005)

Scoping Study for the proposed rezoning and subdivision of Erf 5540, Eerste River. Jeremy's role included managing the Scoping and public participation process, specialist report review and report writing.

Lezmin cc – Hout Bay rezoning and subdivision, Western Cape, South Africa (2003-2005) EIA for the proposed rezoning and subdivision of Erf 1156, Hout Bay. Jeremy was the project manager and responsible for the EIA and public participation process, specialist report review and EIA report writing.



CURRICULUM VITAE JEREMY BLOC

Bellemar Properties - Hout Bay rezoning, Western Cape, South Africa (2003- 2004)	EIA for the proposed rezoning of Erf 1127 and 1128, Hout Bay. Jeremy was the project manager and responsible for the EIA and public participation process, specialist report review and EIA report writing.
SRK Consulting – Sanderling Development, Western Cape, South Africa (1999)	Biological survey of the wetland on the Sanderlings residential development site, Plettenberg Bay. Jeremy undertook the baseline assessment and compiled the vegetation report.
	Resort and Tourism
Van Horsten Property Holdings Pty Ltd - elephant park resort, Maputo Special Reserve, Mozambique (2003)	Pre-feasibility assessment for the proposed elephant park resort, Maputo Special Reserve, Mozambique. Jeremy compiled the pre-feasibility assessment report.
	Other
Attfund Limited - Willowbridge Shopping Centre, Western Cape, South Africa (2011)	EMP for Willowbridge North and South shopping centre, Kenridge, Bellville. Jeremy acted as the project manager and was responsible for EMP report writing.
Brights Hardware – Brights Hardware car park, Western Cape, South Africa (2006-2007)	Basic Assessment for the proposed rezoning of Portion of Erf 10565 (Public Open Space) for the development of a car park, Boston, Cape Town. Jeremy acted as the project manager and was responsible for report review.
Mini-Cape Developments (Pty) Ltd – Bowling Club relocation, Western Cape, South Africa (2005-2006)	Scoping Checklist and EMP for the proposed relocation of the Old Oak Bowling Club to a portion of public open space on Erf 2225, Bellville. Jeremy acted as the project manager and was responsible for compiling the Scoping Checklist and EMP.
Attfund Limited - Willow Village Lifestyle Centre, Western Cape, South Africa (2005-2007)	EMP and ECO for the construction and operation of the Willow Village Lifestyle Centre on Erf 1201 (portion of Erven 975 & 976) Kenridge, Bellville. Jeremy compiled the EMP and acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.
Mini-Cape Developments (Pty) Ltd - Willow Village Lifestyle Centre, Western Cape, South Africa (2004- 2007)	ECO for the construction of the Willowbridge Shopping Centre, Kenridge, Bellville. Jeremy acted as the ECO and was responsible for ensuring the contractor complied with the Construction EMP.
PUBLICATIONS	
	Parsons, R., Eichstadt, L., Crowther, J. & Blood, J. (2008). "Application Procedure for the Development and Use of Groundwater". WRC Report No. 1510/1/08.



CURRICULUM VITAE JEREMY BLOOD

	Blood, J.R., Van Schalkwyk, S.J., Cloete, S.W.P. & Brand, Z. (1998). Embryonic deaths in relation to water loss of artificially incubated ostrich eggs. Proceedings of the Second International Ratite Congress.
	Salih, M.E., Brand, T.S., Van Schalkwyk, S.J., Blood, J., Brand, Z. & Akbay, R. (1998). The effect of dietary fibre level on the production of growing ostriches. Proceedings of the Second International Ratite Congress.
	Salih, M.E., Brand, T.S., Van Schalkwyk, S.J., Blood, J.R., Pfister, B. & Akbay, R. (1998). Number of cellulolytic bacteria in the gastro-intestinal tracts of ostriches fed diets with different fibre levels. Proceedings of the Second International Ratite Congress.
	Brand, Z., Van Schalkwyk, S.J., Cloete, S.W.P. & Blood, J.R. (1998). The effect of pre- heating of ostrich eggs prior to storage and setting in commercial hatcheries. Proceedings of the Second International Ratite Congress.
	Van Schalkwyk, S.J., Brand, Z., Cloete, S.W.P. & Blood, J.R. (1998). The influence of different disinfection protocols on the hatching performance of ostrich eggs. Proceedings of the Second International Ratite Congress.
MEMBERSHIPS	
EAPASA	Registered Environmental Assessment Practitioner: Number 2019/1368
Pr.Sci.Nat.	Registered as a Professional Natural Scientist - Environmental Scientist (Reg. no. 400164/06)
IAIAsa	Member of the International Association for Impact Assessment South Africa



FLOISE COSTANDIUS

Council for Natural Scientific Professions

Biodiversity and Ecology, Botany, Zoology

South Africa

Ecological Assessment

Zoology

ASSOCIATE ENVIRONMENTAL CONSULTANT

Environmental Management, Planning & Approvals,

Professional Natural Scientist (Environmental Science) with the South African



QUALIFICATIONS

Pr Sci Nat 2010

2005 BSc (Hons) 2002

2001

EXPERTISE

- Environmental Impact Assessment
- Public Participation
- Environmental Auditing
- · Terrestrial Fauna Assessment

Eloise has worked as an environmental assessment practitioner since 2005 and has been involved in a number of projects covering a range of environmental disciplines, including Basic Assessments, Environmental Impact Assessments, Environmental Management Programmes, Maintenance Management Plans, Environmental Control Officer services and Public Consultation and Facilitation. In her 16 years as a consultant, she has gained experience in projects relating to oil and gas exploration, road infrastructure, ports, renewable energy and housing and industrial developments. The majority of her work has been based in South Africa. but she also has experience working in Namibia and Mauritius. In addition, she has also undertaken a number of terrestrial fauna assessments as part of EIA specialist teams.

PROJECTS

Confidential Client - Proposed Green Hydrogen Project, Eastern Cape (2021-present)

Confidential Client - Legal Review for Green Hydrogen Projects in South Africa (2021)

Renewable Energy

Scoping and ESIA process for a proposed green hydrogen project in the Eastern Cape, South Africa. The project includes a 2GW solar plant, battery energy storage, overhead transmission lines, water supply infrastructure, hydrogen and ammonia plants and related export infrastructure. Eloise is the project manager responsible for report writing, management of specialists, client liaison and public participation.

Legal review and compilation of Legal Screening Report for Green Hydrogen Projects in South Africa. Eloise was the project consultant responsible for the legal review and report compilation.

Solarhybrid AG, Germany -

CURRICULUM VITAE

Proposed development of the Skevfontein Photovoltaic Power Plant and power lines near Postmasburg, Northern

Cape (2011-2012)

Business Venture Investments 1421 (Pty) Ltd - Development of the De Aar Solar One Photovoltaic Power Project. Northern Cape (2011-2012)

Finavera Renewables Ltd. -Proposed wave energy project off the Western Cape coast (2007)

Spectrum Geo Ltd - Proposed 2D Speculative Seismic Survey off the West Coast, South Africa (2021)

Total Exploration & Production South Africa - Seismic and Sonar Surveys in Block South **Outeniqua off the South Coast** of South Africa (2020)

Total Exploration & Production South Africa - 3D Seismic Survey in Block 5/6/7 off the **South-west Coast of South** Africa (2019-2020)

Spectrum Geo Ltd - Proposed **2D Speculative Seismic Survey** off the South-West and South Coast, South Africa (2018)

Spectrum Geo Ltd - Proposed **2D Speculative Seismic Survey** off the East and Southwest Coast, South Africa (2016)

Scoping and EIA process for the proposed development of the Skeyfontein Photovoltaic Power Plant and related infrastructure near Postmasburg in the Northern Cape, South Africa. The project was halted after completion of the Scoping phase and baseline specialist studies. Eloise was the project consultant. assisted with report writing and facilitated the public participation process.

ELOISE COSTANDIUS

Scoping and EIA process for the proposed development of the De Aar Solar One Photovoltaic Power Project near De Aar in the Northern Cape, South Africa. Eloise was the project consultant, assisted with report writing and facilitated the public participation process.

Environmental input for the compilation of a Site Pre-Selection Report for the establishment of a wave energy project off the Western Cape coast of South Africa. Eloise served as the project consultant, compiled the report and facilitated negotiations with authorities.

Oil and Gas

EMP process for a Reconnaissance Permit Application to acquire 2D seismic data in a large area of the Orange Basin off the West Coast of South Africa. Eloise is the project manager and compiled the EMP report, undertook the required public participation process and managed the appointed specialists.

Environmental Authorisation Amendment Application process for proposed expanded and additional seismic and sonar surveys in Block South Outeniqua off the South Coast of South Africa. Eloise is the project manager responsible for report compilation, specialist report reviews and public participation.

EMP compliance process for a 4-month 3D seismic survey in Block 5/6/7 off the South-west Coast of South Africa. Eloise was responsible for the authority and public notification process and other compliance activities of the EMP, including environmental awareness training for vessel crew, review of daily reports and compilation of the survey Close-out Report at the end of the survey.

EMP process for a Reconnaissance Permit Application to acquire 2D seismic data in a large area off the South-West and South coast of South Africa. Eloise was the project manager and compiled the EMP report, undertook the required public participation process and managed the appointed specialists.

EMP process for a Reconnaissance Permit Application to acquire 2D seismic data within a large offshore area off the South and Southwest coast of South Africa. Eloise was the project manager and compiled the EMP report, undertook the required public participation process and managed the appointed specialists.





in the Port of Saldanha (2006)

EMP process for a Reconnaissance Permit Application to undertake a 2D speculative seismic survey in the Orange Basin off the Northwest coast of South Africa. EMP compliance monitoring services were also provided during the survey operations and a Close-out Report produced. Eloise served as the project consultant, compiled the EMP, undertook the required public participation process, managed the appointed specialists, liaised with the appointed Marine Mammal Observer (MMO) and compiled the Close-out Report.

Spectrum ASA - 2D Speculative Seismic Survey in the Orange Basin, Namibia (2013-2015) EIA process for a 2D speculative seismic survey in the Orange Basin off the Southwest coast of Namibia. EIA and EMP compliance monitoring services were also provided during the survey operations and a Close-out Report produced. Eloise served as the project consultant, compiled the EIA Report and EMP, undertook the required public participation process, managed the appointed specialists, liaised with the appointed MMO and compiled the Close-out Report.

Petroleum Geo-Services ASA -Proposed speculative seismic survey off the South Coast of South Africa (2014) EMP process as part of a Reconnaissance Permit application for undertaking a speculative seismic survey of the South Coast of South Africa. Eloise was the project consultant and compiled the EMP report, undertook the required public participation process and managed the appointed specialists.

OK Energy Ltd - Proposed exploration programme in the Northern Cape Ultra-deep Licence Area, Orange Basin, South Africa (2014) EMP process as part of an Exploration Right application for undertaking an exploration programme (i.e. seismic survey, tensor gravity and magnetics, bathymetry survey, seabed sampling) in the Northern Cape Ultra-deep Licence Area in the Orange Basin off the Northwest Coast of South Africa. Eloise was the project consultant, compiled the EMP, undertook the required public participation process and managed the appointed specialists.

CGG Services SA - Proposed 2D speculative seismic survey in the Durban Basin, East Coast, South Africa (2013)

EMP process as part of a Reconnaissance Permit application for undertaking a speculative 2D seismic survey in the Durban Basin off the East Coast of South Africa. Eloise served as the project consultant, compiled the EMP report, undertook the required public participation process and managed the appointed specialists.

Alumni Trading 234 (Pty) Ltd -Proposed exploration activities to the South of Burgersfort, Limpopo, South Africa (2013-2017) EMP process as part of an Exploration Right application for undertaking soil sampling and exploration well drilling for hydrocarbons in an area to the south of Burgersfort in the Limpopo province of South Africa. Eloise served as the project manager and produced the EMP, undertook the required public participation process and produced the Closure Application documentation at the end of the Exploration Right validity period.

GeoPartners Ltd - Proposed 2D seismic survey in the Lüderitz Basin, Namibia (2012)

EIA process for a speculative 2D seismic survey in the Lüderitz Basin off the Southwest coast of Namibia. Eloise served as the project consultant, compiled the EIA Reports, undertook the required public participation process and managed the appointed specialists.

Total E and P South Africa (Pty) Ltd - Proposed Exploration Programme in the Outeniqua South Area, South Coast, South Africa (2012) EMP process as part of an Exploration Right application for undertaking an exploration programme (2D seismic survey, sonar bathymetry, drop core sampling) in the Outeniqua South Area off the South Coast of South Africa. Eloise served as the project consultant, compiled the EMP, undertook the required public participation process and managed the appointed specialists.

CGGVeritas - Proposed 2D EMP process as part of a Reconnaissance Permit application for undertaking a 2D Speculative seismic survey off speculative seismic survey off the East Coast of South Africa. Eloise served as the the East Coast of South Africa project consultant, compiled the EMP, undertook the required public participation (2012)process and managed the appointed specialists. Signet Petroleum Ltd -EIA process for a 2D and 3D seismic survey programme in Block 2914B off the coast Proposed 2D and 3D seismic of Namibia. Eloise served as project consultant, compiled the EIA Report, survey programme in Block undertook the required public participation process and managed the appointed 2914B, Namibia (2011) specialists. Chariot Oil & Gas - Proposed EIA process for a seismic survey off the coast of Namibia. EIA and EMP seismic survey off the coast of compliance monitoring services were also provided during the survey operations Namibia (2011) and a Close-out Report produced. Eloise served as the project consultant, compiled the EIA Report and EMP, undertook the required public participation process, managed the appointed specialists, liaised with the appointed MMO and compiled the Close-out Report. Forest Exploration Scoping and EIA process for the development of the Ibhubesi Power Plant Project International South Africa in the Northern Cape (offshore and onshore components) province of South Africa. (Pty) Ltd - Proposed Ibhubesi Eloise assisted with report writing and served as public participation facilitator. **Power Plant Project, Northern** Cape, South Africa (2006-2008 & 2011) Riverwalk Trading 154 (Pty) EMP Addendum process for the drilling of two exploration boreholes on Farm 30 Ltd - Proposed exploration Potloodspruit, Plot 106 to the north of Lydenburg in the Mpumalanga province of boreholes in Lydenburg, South Africa. Eloise served as the project consultant, compiled the EMP Addendum Mpumalanga, South Africa and undertook the required public participation process. (2011)QVD (South Africa) Ltd -EMP process for a 3D seismic survey in Block 2B off the West Coast of South Africa. Proposed 3D seismic survey in Eloise served as the project consultant, compiled the EMP, undertook the required Block 2B, West Coast, South public participation process and managed the appointed specialists. Africa (2008-2009) Enigma Oil and Gas Company -EIA process for a proposed 2D and 3D seismic surveys in three areas off the coast Proposed 2D and 3D semis of Namibia. Eloise served as project consultant, produced the EIA Report, surveys in three areas off the undertook the required public participation process and managed the appointed coast of Namibia (2008 - 2009) specialists. Alumni Trading 234 (Ptv) Ltd -EMP process for conducting prospect geochemical surveying in the Waterval-Proposed prospect Boven, Machadodorp area in the Mpumalanga province, South Africa. Eloise served as the project manager, reviewed the EMP and undertook the required geochemical surveying in Mpumalanga, South Africa public participation process. (2008)Ferromarine Africa - Oil and Construction and Operational EMPs for two Ferromarine facilities for the servicing Gas Service Hub in the Port of and fabrication of oil and gas structures, i.e. an oil and gas service hub at A Berth in **Cape Town and Fabrication** the Port of Cape Town and an oil and gas structures fabrication yard in the Port of Yard for Oil and Gas Structures Saldanha. Eloise served as the project consultant and compiled the EMPs.



Riverwalk Trading cc -Geochemical surveying for oil in an area north of Lydenburg, Mpumalanga, South Africa (2005-2006) EMP process as part of an Exploration Right application for geochemical surveying in an area to the north of Lydenburg in the Mpumalanga province of South Africa. Eloise served as the project consultant, compiled the EMP and undertook the required public participation process.

Roads and related infrastructure

EFG Engineers (Pty) Ltd for WCG: DTPW – Proposed Upgrading of TR28 Section 1 between Botrivier and Hermanus (2019-2020)

Basic Assessment for the upgrading of Trunk Road 28 Section 1 (R43) between Sandbaai and Onrus. Eloise is the project manager responsible for project review and client interaction.

Aurecon (Pty) Ltd for South African National Roads Agency (SOC) Limited (SANRAL) – Proposed Upgrading of the N1 Section 4 in the Matjiesfontein area (2019-2020) Basic Assessment for the upgrading of the N1 Section 4 between Monument River and Doornfontein as well as the development of eight borrow pits and a quarry for the sourcing of road-building material. Eloise was the project manager, compiled the reports, reviewed the specialist reports and undertook the required public participation process.

SMEC SA (Pty) Ltd for Saldanha Bay IDZ Licencing Company (SOC) Ltd - Proposed new access roads to the Saldanha Bay IDZ (2016-2017) Basic Assessment for the construction of two new access roads linked to the back of port area of the Saldanha Bay IDZ. Eloise was the project manager and reviewed the Basic Assessment Report (BAR) and EMP.

GIBB (Pty) Ltd for City of Cape Town - Replacement of the Westlake Culvert, Lakeside, Cape Town (2016-ongoing) Maintenance Management Plan (MMP) for the proposed replacement of the Westlake Culvert in the Lakeside area of Cape Town. SLR also provided the Environmental Control Officer (ECO) services for the duration of the construction period. Eloise was the project manager and provided review services for the MMP and ECO reports.

AECOM SA for Western Cape Government (WCG): Department of Transport and Public Works (DTPW) -Emergency fill slope repairs along Akkedisberg Pass, Overstrand Municipal Area (2015-2016) MMP for the emergency fill slope repairs at two storm damaged sites along the Akkedisberg Pass between Caledon and Stanford in the Overstrand Municipal area. Eloise was the project consultant, compiled the MMP, undertook the required public participation process and managed the appointed specialist.

AECOM SA for WCG:DTPW -Upgrading of TR31/2 between Ashton and Montagu, Cogmanskloof Pass (2015ongoing) ECO services for the three-year construction phase for the upgrading of Trunk Road 31 Section 2, Cogmanskloof Pass, between Ashton and Montagu, including the main roads through the two towns. Eloise is serving as the ECO for the duration of the construction period and producing monthly ECO audit reports.

Aurecon (Pty) Ltd for WCG:DTPW - Development of 11 strategic borrowpits in the Bitterfontein-Nuwerus area, South Africa (2014-ongoing)

CURRICUI UM VITAE

AECOM SA for WCG:DTPW -Upgrading of TR85/1 between the R27 and Jacobsbaai Intersection, Saldanha Bay Municipal area (2013-2015)

UWP Consulting (Pty) Ltd for WCG: DTPW - Regravelling of sections of Divisional Roads DR2187, DR2192, DR2193 and DR2195 in the Graafwater area, South Africa (2013-2015)

Gibb (Pty) Ltd for WCG:DTPW: Proposed changes to the proclaimed road network affected by the raising of the Clanwilliam Dam wall (2013ongoing)

SPP Project Solutions (Pty) Ltd for Road Development Authority, Mauritius. Proposed Road Decongestion Programme, Mauritius (2012-2014)

ERO Engineers (Pty) Ltd for South African National Roads Agency (SOC) Limited (SANRAL): Rehabilitation of N1/8 between Nelspoort and Three Sisters (2012-2014)

AECOM SA for WCG:DTPW: New road link between the R27 and R45, including intersections improvements, Saldanha Municipal Area (2012-2015)

Aurecon (Pty) Ltd for WCG:DTPW: - Proposed new Provincial Weighbridge near Gouda, Drakenstein Municipal Area (2012-2015) Basic Assessment and planning application process for the development of 11 strategic borrowpits in the Bitterfontein-Nuwerus area along the West Coast of South Africa. Eloise was the project manager, compiled the reports, reviewed the planning application documentation and undertook the required public participation process.

Basic Assessment for the upgrading of Trunk Road 85 Section 1 between the R27 and the Jacobsbaai Intersection to a designated freight route, including new grade-separated interchanges, in the Saldanha Bay Municipal area. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.

ECO services for the duration of the 2-year construction period for the regravelling of divisional roads in the Graafwater area, Western Cape, South Africa, including the development of five borrowpits. Eloise served as the ECO and produced monthly ECO audit reports.

Environmental input and facilitation of the public participation process for the proposed changes to the proclaimed secondary road network to be affected by the raising of the Clanwilliam Dam wall. Eloise served as the project manager, produced the required environmental reports, facilitated the public participation process and managed the appointed specialists.

Environmental and Social Impact Assessment process for the proposed road decongestion programme in and around Port Louis, Mauritius. Eloise served as a project consultant and assisted with project deliverables and report writing.

ECO services for the duration of the 2-year construction period for the rehabilitation of Section 8 of National Route 1 between Nelspoort and Three Sisters in the Western Cape, South Africa. Eloise served as the ECO, produced monthly ECO audit reports, a final project audit report and a borrowpit closure application.

Scoping and EIA process for a new road link between the R27 and R45, including intersection improvements, to serve as a future designated freight route in the Saldanha Municipal area. Eloise was the project consultant, compiled the reports, facilitated the public participation process and managed the appointed specialists.

Basic Assessment for the development of a new provincial weighbridge near Gouda in the Drakenstein Municipal area, Western Cape, South Africa. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.





Basic Assessment for the replacement of the failed bridge/culvert structure at the MR531 crossing of the Verlorenvlei at Elands Bay in the Western Cape, South Africa. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.

Goba Consulting (Pty) Ltd for SANRAL - New community access roads at Thombo, Eastern Cape (2011-2012)

Basic Assessment for the construction of new community access roads and consolidation of intersections at Thombo in the Eastern Cape, South Africa. Eloise served as project consultant and assisted with report writing.

BKS Consulting (Pty) Ltd for WCG:DTPW - Borrowpit Screening Process and EMP for two borrow pits for the upgrading of TR23/3 between Gouda and Porterville (2011-2013)

Borrowpit screening process and EMP for a borrowpit to source material for the upgrading of Section 3 of Trunk Road 23 between Gouda and Porterville. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.

BKS Consulting (Pty) Ltd for WCG:DTPW - Upgrading of TR31/2 between Ashton and Montagu (2010-2013)

Basic Assessment for the upgrading of Section 2 of Trunk Road 31, Cogmanskloof Pass, between Ashton and Montagu, Western Cape, South Africa. Eloise was the project consultant, compiled the reports, undertook the required public participation process and borrowpit screening process, and managed the appointed specialists.

Arcus Gibb (Pty) Ltd for SANRAL - Extension of the Baviaans Krants Quarry, Laingsburg (2010-2013) EMP for the extension of the Baviaans Krants Quarry outside of Laingsburg for the sourcing of material for the rehabilitation of a section of the N1 to the north of Laingsburg and ECO services. Eloise was the project consultant, compiled the EMP, undertook the required public participation process, managed the appointed specialists and served as the ECO for the duration of the construction period.

BKS Consulting (Pty) Ltd for WCG:DTPW - Development of a borrow area on Remainder of Farm 223 (Grootvlei), Tulbagh (2010-2011)

EMP for the development of a borrow area on Remainder of Farm 223 (Grootvlei), Tulbagh, for the sourcing of road-building material. Eloise was the project consultant, compiled the EMP, undertook the required public participation process and managed the appointed specialists.

UWP Consulting (Pty) Ltd for SANRAL - Rehabilitation of N9/7 from Wolwefontein to Colesberg including a new N1/N9 access interchange at Colesberg and eight borrowpits (2008-2011)

Basic Assessment for the rehabilitation of Section 7 of National Route 9 between Wolwefontein and Colesberg, including a new grade separated N1/N9 access interchange at Colesberg, Northern Cape. The project also included an EMP for the extension of eight existing borrowpits in the area. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.

BKS Consulting (Pty) Ltd for WCG:DTPW - Upgrading of the M5 between the M5 Viaduct and Black River Parkway Interchange, Cape Town (2007-2013)

Basic Assessment for the upgrading of the M5 between the M5 Viaduct and Black River Parkway Interchange, Cape Town and ECO services. Eloise was the project consultant, compiled the reports, undertook the required public participation process, managed the appointed specialists and served as ECO for the duration of the two-phased construction period between 2009 and 2013.

Jeffares & Green (Pty) Ltd for WCG:DTPW - Upgrading of MR531 and regravel of MR534 in the Redelinghuys area (2006-2009)	Basic Assessment for the upgrading of Main Road 531 between Piketberg and Elands Bay and the regravel of MR534 between Redelinghuys and Aurora in the Western Cape, South Africa. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.
	Landfill sites and waste water treatment works
City of Cape Town - Community waste drop-off facility at the Swartklip Refuse Transfer Station, Mitchell's Plain, Cape Town (2012-2014)	Basic Assessment as part of a Waste Licence Application for a new community waste drop-off facility at the Swartklip Refuse Transfer Station in Mitchell's Plain, Cape Town. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.
City of Cape Town - Community waste drop-off facility at the former Faure Landfill Site, Cape Town (2012- 2014)	Basic Assessment as part of a Waste Licence Application for a new community waste drop-off facility at the former Faure Landfill Site, Cape Town. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.
City of Cape Town - Upgrading of wastewater treatment infrastructure in the Blaauwberg Area, Cape Town (2007-2008)	Scoping and EIA process for the upgrading of wastewater treatment infrastructure, including plant and pipelines, in the Blaauwberg area, Cape Town. Eloise was the project consultant and assisted with report writing.
	Water and sewage pipelines
Jeffares & Green (Pty) Ltd for Overberg Water - Refurbishment of the Rûensveld-East Rising Main, Swellendam (2010-2011)	Basic Assessment for the refurbishment of the Rûensveld-East Rising Main in the Swellendam area. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.
	Rivers, stormwater and pipelines
Trans-Caledon Tunnel Authority (TCTA) - Construction of the Berg Water Project (2005-2008)	ECO services for the duration of the four-year construction period of the Berg Water Project. Eloise served as assistant ECO and produced the monthly ECO audit reports.



Housing developments

Saldanha Bay IDZ Licencing

Bowling Club to Erf 48-2225,

Bellville (2005-2007)

Scoping and EIA process for fuel bunkering at the oil and gas offshore service

the EIA Scoping Checklist and undertook the required public participation process.

Ongegund Trust - Proposed residential development of Ongegund Phase 2 on Farms 1177 and 618. Riebeek Valley (2010-2015)

Nationwide Mortgage Centre -**Proposed Woodgreen Housing** Development, Mitchell's Plain, Cape Town (2005-2006)

Scoping and EIA process for the development of the Ongegund Phase 2 residential estate on Farms 1177 and 618 at Ongegund in the Riebeek Valley. The project was halted after completion of the Scoping phase and specialist studies. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.

Environmental compliance services for the development of the proposed Woodgreen Housing Development in Mitchell's Plain, Cape Town. Eloise was the project consultant, compiled the reports, undertook the required public participation process and managed the appointed specialists.

General industries

34South Engineering -**Proposed Green Ship Recycling** Facility at the Saldanha Bay IDZ (2020-2021)

Saldanha Bay IDZ Licencing Company (SOC) Ltd - Proposed used lubricant oil recycling facility at the Saldanha Bay IDZ (2018-2020)

Saldanha Bay IDZ Licencing Company (SOC) Ltd - Proposed storage of hazardous substances at the Saldanha Bay IDZ (2018-2019)

Transnet National Ports Authority (SOC) Ltd - Revision of the SEA of the Port of Saldanha (2017-2018)

Transnet National Ports Authority (SOC) Ltd -Screening Study for Rig Repair Facilities, Port of Saldanha (2016)

Pindulo VDM (Pty) Ltd -**Atmospheric Emissions Licence Application Process for** Storage and Handling of Ore (2018)

Legislation review and completion of Applicability Checklist for the development of a green ship recycling facility within the declared Saldanha Bay IDZ area, Saldanha Bay. Eloise was the project manager, compiled the documentation and liaised with relevant authorities

Scoping and EIA process as part of a Waste Management Licence Application process for a proposed Used Lubricant Oil Recycling Facility at the Saldanha Bay IDZ. Eloise was the project manager, compiled the reports, undertook the public participation process and managed the appointed specialists.

Scoping and EIA process for the proposed storage of hazardous substances at the Saldanha Bay IDZ. Eloise was the project manager, compiled the reports, undertook the public participation process and managed the appointed specialists.

Revision of the Strategic Environmental Assessment (SEA) of the Port of Saldanha. TNPA's 2013 SEA was revised based on the 2016 Port Development Framework Plan. Eloise was the project manager, compiled the revised SEA report and booklet and managed the public participation process.

Screening Study for proposed rig repair facilities linked to Project Phakisa in the Port of Saldanha. The project included assessment of marine impacts related to the construction of a new rig repair berth and a 500 m letty and dry dock within the Port. Eloise was the project manager, compiled the screening report, undertook the public participation process and managed the appointed marine specialists.

Atmospheric Emissions Licence application process for the storage and handling of ore at Pindulo VDM's Saldanha Bay truck depot and storage facility. Eloise was the project manager, completed the AEL application document, undertook the required public participation process and managed the appointed air quality specialist.

Company (SOC) Ltd. complex within the Saldanha Bay IDZ. Eloise was the project manager, will compile Proposed storage of hazardous the reports, undertake the required public participation process and manage the substances at the Saldanha appointed specialists. Bay IDZ (2017-2019) **Dundee Precious Metals** Environmental and Social Impact Assessment Amendment process for the Tsumeb - Proposed Tsumeb proposed Tsumeb Copper Smelter Upgrade and Optimisation Project in Tsumeb, **Smelter Upgrade and** Northern Namibia. Eloise is the project manager, compiling reports, undertaking **Optimisation Project** (2016the required public participation process and managing appointed specialists. 2020) Saldanha Bay IDZ Licencing Scoping and EIA process for the establishment of an Oil and Gas Offshore Service Company (SOC) Ltd. - Oil and Complex at the Saldanha Bay IDZ within the Port of Saldanha. Eloise was the project gas offshore service complex manager, compiled the reports, undertook the required public participation at the Saldanha Bay IDZ (2013process and managed the appointed specialists. 2015) Scoping and EIA process as part of a Waster Licence Application process for the SAB Maltings - Steep Water establishment of a Steep water Treatment Plant at SAB's Maltings Plant in Caledon. Treatment Plant at SAB's Western Cape, South Africa. Eloise was the project manager, compiled the reports, Maltings Plant in Caledon undertook the required public participation process and managed the appointed (2009-2013) specialists. Basic Assessment for the construction and operation of a marine lift facility in the Yachtport SA (Pty) Ltd - Marine Small Craft Harbour of the Port of Saldanha and ECO services for the duration of Lift Facility in the Small Craft the 1-year construction period. Eloise was the project consultant, compiled the Harbour, Port of Saldanha reports, undertook the required public participation process, managed the (2009-2010) appointed specialists and provided the ECO services. **Environmental and Social Due Diligence** Client confidential - ESDD for Environmental and Social Due Diligence for a number of solar energy facilities a number of solar energy within South Africa. Eloise was responsible for document review / auditing and facilities in South Africa (2019) report writing. Other Grinaker LTA (Ptv) Ltd -Operational Phase EMP and legislative compliance review for an oil and gas Saldanha Oil and Gas fabrication yard in the Port of Saldanha. Eloise was the project consultant and Fabrication Yard. Port of compiled the EMP. Saldanha (2011) **Municipal Planning Solutions** for City of Cape Town -Environmental scan and Screening Report for the proposed development of the Proposed development of the Melkbosstrand Central Business District area. Eloise was the project consultant. Melkbosstrand CBD (2009compiled the Screening Report and managed the appointed specialists. 2010) Mini-Cape Developments -EIA compliance process for the relocation of the Old Oak Bowling Club to Erf 48-Relocation of the Old Oak 2225 along Old Oak Road in Bellville. Eloise was the project consultant, compiled



Department of Public Works -Repair work of the main breakwater pier in the Yzerfontein Harbour (2005-2006)

EIA compliance process for the repair of the damaged main breakwater pier in the Yzerfontein Harbour. Eloise was the project consultant, compiled the EIA Scoping Checklist and undertook the required public participation process.

Faunal Specialist Studies

Sunbird Energy - Proposed development of the Ibhubesi Gas Project (2015) Terrestrial fauna specialist study as part of the Scoping and EIA process for the development of the Ibhubesi Gas Project along the West Coast of South Africa. Eloise was appointed as the terrestrial fauna specialist, undertook the specialist study assessment and compiled the specialist report for input into the EIA Report.

AECOM SA for WCG:DTPW -Proposed Worcester Eastern Bypass, Western Cape (2013) Terrestrial fauna specialist study as part of the Scoping and EIA process for the construction of the Worcester Eastern Bypass from National Route 1, Worcester, Western Cape. Eloise was appointed as the terrestrial fauna specialist, undertook the specialist study assessment and compiled the specialist report for input into the EIA Report.

Solarhybrid SA - Proposed development of the Skeyfontein Photovoltaic Power Project near Postmasburg, Northern Cape (2011)

Terrestrial fauna specialist study as part of the Scoping and EIA process for the development of the Skeyfontein Photovoltaic Power Project near Postmasburg in the Northern Cape, South Africa. Eloise was appointed as the terrestrial fauna specialist, undertook the specialist study assessment and compiled the baseline specialist report for input into the Scoping Report.

Business Venture Investments 1421 (Pty) Ltd - Development of the De Aar Solar One Photovoltaic Power Project, Northern Cape (2011) Terrestrial fauna specialist study as part of the Scoping and EIA process for the development of the De Aar Solar One Photovoltaic Power Project near De Aar, Northern Cape, South Africa. Eloise was appointed as the terrestrial fauna specialist, undertook the specialist study assessment and compiled the specialist report for input into the EIA Report.

Forest Exploration International (South Africa (Pty) Ltd - Ibhubesi Power Plant Project, Northern Cape, South Africa (2011)

Terrestrial fauna specialist study as part of the Scoping and EIA process for the development of the Ibhubesi Power Plant Project, Northern Cape, South Africa. Eloise was appointed as the terrestrial fauna specialist, undertook the specialist study assessment and compiled the specialist report for input into the EIA Report.

City of Cape Town - Upgrading of waste water treatment infrastructure in the Blaauwberg Area (2007) Terrestrial fauna specialist study as part of the Scoping and EIA process for the upgrading of waste water treatment infrastructure in the Blaauwberg area, Cape Town. Eloise was appointed as the terrestrial fauna specialist, undertook the specialist study assessment and compiled the specialist report for input into the EIA Report.

CapeNature - Second hiking route on the Whale Trail, De Hoop Nature Reserve (2007)

Terrestrial fauna specialist study as part of the Scoping and EIA process for the development of the second hiking route and related infrastructure on the Whale Trail in the De Hoop Nature Reserve, Western Cape, South Africa. Eloise was appointed as the terrestrial fauna specialist, undertook the specialist study assessment and compiled the specialist report for input into the EIA Report.

CCA Environmental (Pty) Ltd. -Upgrading of the Gansbaai to Bredasdorp Road to surfaced road standard (2004)

CURRICULUM VITAE

As a Masters student, Eloise assisted with the specialist terrestrial fauna assessment as part of the Scoping and EIA process for the upgrading of the Gansbaai to Bredasdorp Road to surfaced standard.

CCA Environmental (Pty) Ltd. -Proposed new regional landfill site for the Cape Metropolitan Area (2004 and 2010) As a Masters student, Eloise assisted with the specialist terrestrial fauna assessment as part of the Scoping and EIA process for the establishment of a new regional landfill site for the City of Cape Town. After being appointed as an environmental consultant, she compiled an addendum to the original specialist assessment

SRK Consulting – Initial diamond mining by NDC Mining Company LTD. in the Vredendal district (2004)

As a Masters student, Eloise assisted with the specialist terrestrial fauna assessment as part of the Scoping and EIA process for proposed diamond mining in the Vredendal district along the West Coast of South Africa.

Withers Environmental Consultants - Development of Farm Trekoskraal no. 104, District Vredenburg (2002)

As an Honours student, Eloise assisted with the specialist terrestrial fauna assessment as part of the Scoping and EIA process for the resort development of Farm Trekoskraal in the Vredenburg area along the West Coast of South Africa.

Transhex – Richtersveld mining (2000)

As a BSc student, Eloise assisted with the specialist terrestrial fauna assessment for Transhex's proposed mining operations in the Richtersveld area in the Northern Cape, South Africa.

MEMBERSHIPS

Herpetological Association of Africa (HAA)

International Association for Impact Assessment South Africa (IAIASA) Member

Member

PUBLICATIONS

Costandius, E., Mouton, P.le F.N. & Boucher, C. 2004. Conservation status of the Dwarf Crag Lizard, *Pseudocordylus nebulosus*, from the Hottentots Holland Mountains, South Africa. Herpetological Association of Africa Symposium, Port Elizabeth.

Costandius, E., Mouton, P.le F.N., & Boucher, C. 2006. Conservation status of the Dwarf Crag Lizard, *Pseudocordylus nebulosus*, from the Hottentots Holland Mountains, South Africa. *South African Journal of Wildlife Research* 36(2): 123-132.

Costandius, E. & Mouton, P.le F.N. 2006 Sexual Size Dimorphism in Montane Cordylid Lizards: a case study of the Dwarf Crag Lizard, *Pseudocordylus nebulosus*. *African Zoology* 41 (1): 103-112.

Costandius, E., Mouton, P.le F.N. and Flemming, A.F. 2006. The Effect of Intergroup Distance on Group Fidelity in the Group-living Lizard, *Cordylus cataphractus*. *African Journal of Herpetology* 55 (1): 61-68.



