

APPENDIX 1: EAP CV

CURRICULUM VITAE



IMKE SUMMERS

NAME OF FIRM : *TERRATEST (PTY) LTD*

NAME OF PERSON : *IMKE SUMMERS*

NATIONALITY : *SOUTH AFRICAN*

DATE OF BIRTH : *1987/06/01*

PROFESSION : *ENVIRONMENTAL CONSULTANT*

QUALIFICATION : *BSoc Sci (Geog & Env. Mgnt), BSc Hons (Env. Sci), MSc (Environmental Science)*

POSITION IN FIRM : *ENVIRONMENTAL ASSESSMENT PRACTITIONER*

SPECIALISATION IN FIRM : *BASIC AND FULL ENVIRONMENTAL IMPACT ASSESSMENTS, ENVIRONMENTAL MANAGEMENT PROGRAMMES, COMPLIANCE MONITORING*

YEARS OF EXPERIENCE : *6 YEARS*

YEARS WITH FIRM : *5 YEARS*

SUMMARY OF EXPERIENCE

Imke Summers is an Environmental Consultant at Terratest (Pty) Ltd with 6 years of experience within a wide variety of environmentally related spheres. These include Basic and Full Environmental Impact Assessments, the developing of Environmental Management Programmes, Compliance Auditing and the Public Participation Process. Project assortment includes infrastructure associated with housing developments, bridge construction and upgrades, linear developments including roads and water supply schemes, private sector development and agricultural development. Imke has worked throughout KwaZulu-Natal, including work on structures upgrades in Northern KwaZulu-Natal, water supply schemes in the uThukela and Impendle regions, environmental auditing of various sites including the Chota Motola Interchange in Pietermaritzburg, and a number of water supply schemes, road upgrades and facility expansions throughout KwaZulu-Natal.

Imke is a member of the KwaZulu-Natal Branch of the International Association of Impact Assessors and has a keen interest in the environment and the future cosmopolitan nature of development and consulting.

SOCIETY MEMBERSHIP

IAIA SA KZN : International Association of Impact Assessors South Africa, KwaZulu-Natal Branch (Membership No. 2930)

EDUCATION

2004 : **IEB Matric** with full exemption

2007 : **BSoc Sc** (Geog. and Env. Sc.) - University of KwaZulu-Natal, Pietermaritzburg
2008 : **BSc** (Hons) (Env. Sc.) - University of KwaZulu-Natal, Pietermaritzburg
2017 : **MSc** (Env. Sc.) - University of KwaZulu-Natal, Pietermaritzburg

SPECIFIC EXPERIENCE

Terratest (Pty) Ltd

- 2016 - 2017** : Position: Environmental Consultant
- : Water Use Licence Application for the Upgrade and Expansion of the Stormwater System at No.1 South beach Road, Umdloti - Environmental Assessment Practitioner. Client: eThekweni Municipality.
 - : Water Use Licence Application for a Portion of the P700 Nodal Development - Environmental Assessment Practitioner. Client: Afri-Infra Consulting Engineers (Pty) Ltd on behalf of the Zululand District Municipality.
 - : Basic Assessment Report and Environmental Management Programme for the Bhekuzulu, Ennersdale and Epangweni Water Reticulation Scheme - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers (Pty) Ltd on behalf of the uThukela District Municipality
 - : Water Use Licence Application for the Bhekuzulu, Ennersdale and Epangweni Water Reticulation Scheme - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers (Pty) Ltd on behalf of the uThukela District Municipality
 - : Water Use Licence Application Proposed for the R22 Hluhluwe Town Bypass, Hluhluwe - Environmental Assessment Practitioner. Client: Hatch Goba on behalf of the South African National Roads Agency Limited (SANRAL).
- 2015 - 2016** : Position: Environmental Consultant
- : Scoping and Environmental Impact Assessment and Environmental Management Programme for the Proposed R22 Hluhluwe Town Bypass, Hluhluwe - Environmental Assessment Practitioner. Client: Hatch Goba on behalf of the South African National Roads Agency Limited (SANRAL).
 - : Basic Assessment Reports and Environmental Management Programmes for Eight Bridge structures within the greater eThekweni Municipality:
 - Epayipini to 34th Avenue Pedestrian Bridge
 - Verulam Pedestrian Bridge
 - Tottenham Road Pedestrian Bridge
 - Emapheleni to Thulani Masango Pedestrian Bridge
 - How Long Pedestrian Bridge
 - GX11 Pedestrian Bridge
 - Umgeni River Low Level Bridge
 - Umqeku Low Level BridgeEnvironmental Assessment Practitioner. Client: eThekweni Metropolitan Municipality.
 - : Basic Assessment Reports and Environmental Management Programmes for the proposed development of the Midlands Biogas Digester and Liquid Fertiliser Plant – Public Participation Specialist. Client: Midlands Biogas and Fertiliser.
 - : Basic Assessment Reports and Environmental Management Programmes for a Portion of the P700 Nodal Development - Environmental Assessment Practitioner. Client: Afri-Infra Consulting Engineers (Pty) Ltd on behalf of the Zululand District Municipality.
 - : Screening Assessment for additional phases for the Bhekuzulu Bulk Water Supply Scheme - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers (Pty) Ltd on behalf of uThukela District Municipality
 - : Basic Assessment and Environmental Management Programme for the additional phases for the Bhekuzulu Bulk Water Supply Scheme - Environmental Assessment Practitioner - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers (Pty) Ltd on behalf of uThukela District Municipality

2014 - 2015 : Position: Environmental Consultant

- : Screening Assessment for a Portion of the P700 Nodal Development - Environmental Assessment Practitioner. Client: Afri-Infra Consulting Engineers (Pty) Ltd on behalf of the Zululand District Municipality.
- : Basic Assessment Report and Environmental Management Programme for the Proposed R22 Road-Over-Rail Bridge and Approach Alignment, Hluhluwe - Environmental Assessment Practitioner. Client: Hatch Goba on behalf of the South African National Roads Agency Limited (SANRAL).
- : Basic Assessment Report and Environmental Management Programme for the Proposed Ndiza Poultry Facility Expansion, Kildaragh Farm, Dargle, KwaZulu-Natal - Environmental Assessment Practitioner. Client: Ndiza Poultry Breeders.
- : Basic Assessment Report and Environmental Management Programme for the Proposed Construction of the Ideal Shavings Poultry Facility, Dargle, KwaZulu-Natal - Environmental Assessment Practitioner. Client: Ideal Shavings.
- : Amendment of the Authorised Environmental Management Programme for the Enguga, Entshayabantu and Macksam (Phase 5) Community Water Supply Scheme, Impendle - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers on behalf of Umgungundlovu District Municipality.
- : Resource Efficiency and Cleaner Productions Assessment for the DEFY Ezakheni Site, Ladysmith - Environmental Scientist. Client: The CSIR on behalf of DEFY Ezakheni.

2013 – 2014 : Position: Environmental Consultant

- : Environmental Impact Assessment and Waste Licence Application for the Umlaas Gates Light Industrial Development - Environmental Assessment Practitioner. Client: Altix Holdings (Pty) Ltd.
- : Basic Assessment Report and Environmental Management Programme for the van Zyl Pongola Housing Development - Environmental Assessment Practitioner. Client: Private Applicant.
- : Basic Assessment and Environmental Management Programme for the upgrade and expansion of the Umhlanga Life Guard Facility - Environmental Assessment Practitioner. eThekweni Metropolitan Municipality.
- : Basic Assessment and Environmental Management Programme for the upgrade Qubukani to Ntabenkoni road, Hlabisa - Environmental Assessment Practitioner. Client: Mzansi Africa Civils on behalf of Umkhanyakude District Municipality.
- : Monthly environmental compliance monitoring and reporting for the construction of the Bhekuzulu/Epangweni Community Water Supply Scheme - Environmental Officer. Client: Hidratech Infra (Pty) Ltd on behalf of uThukela District Municipality.
- : Monthly environmental compliance monitoring and reporting for the expansion of the Pongola Water Treatment Works – Environmental Compliance Officer. Client: Afri-Infra Group (Pty) Ltd on behalf of Zululand District Municipality.
- : Weekly environmental compliance monitoring and reporting for the construction of the KwaNovuka Community Water Supply Scheme, Impendle – Environmental Compliance Officer. Client: Aurecon Group on behalf of Impendle Local Municipality.
- : Borrow pit closure reports for four borrow pits along the R30 Glen Lyon to Brandfort – Environmental Assessment Practitioner. Client: Roadcrete (Pty) Ltd
- : Basic Assessment and Water Use Licence for the Iliso Consulting Engineers / eThekweni Metropolitan Municipality Geogedale and Surrounds Bulk Sewer Infrastructure Development
- : Basic Assessment and Water Use Licence for the KwaCele and Surrounds Bulk Sewer Infrastructure Development - Environmental Assessment Practitioner. Client: Iliso Consulting Engineers / eThekweni Metropolitan Municipality

- : Environmental Impact Assessment, Waste Licence Application and Air Emissions Licence for a Mini Steel Foundry – Environmental Assessment Practitioner. Client: AfroIndia Recyclers (Pty) Ltd
- : Basic Assessment Report and Environmental Management Programme for the Slabber Fuel Station Development, Pongola – Environmental Assessment Practitioner. Client: Private
- : Basic Assessment Report and Environmental Management Programme for the Van Zyl Pongola Housing Development - Environmental Assessment Practitioner. Client: Private
- : Monthly environmental compliance monitoring and reporting for the construction of the Pongola Water Treatment Works - Environmental Officer. Client: Afri-Infra (Pty) Ltd on behalf of the uMkhanyakude District Municipality
- : Basic Assessment and Environmental Management Programme for the Umhlanga Life Guard Facility Upgrade - Environmental Assessment Practitioner. Client: eThekweni Metropolitan Municipality
- : Basic Assessment and Environmental Management Programme for the Hlabisa Roads; Qubukani to Ntabenkoni Upgrade - Environmental Assessment Practitioner. Client: Umkhanyakude District Municipality
- : Environmental Screening Report for the Zamimpilo Clinic Waste Water Treatment Works - Environmental Assessment Practitioner. Client: TJ Architects (Pty) Ltd on behalf of the Department of Health

2012 – 2013 : Position: Environmental Consultant

- : Basic Assessment and Environmental Management Programme for the structures upgrades along the P451/470/475 - Environmental Assessment Practitioner. Client: SSI (Pty) Ltd on behalf of KZN Department of Transport.
- : Basic Assessment and Environmental Management Programme for the structures upgrades along the P735 - Environmental Assessment Practitioner. Client: SSI (Pty) Ltd on behalf of KZN Department of Transport.
- : Environmental Management Programme and monthly compliance monitoring for the upgrade of the Cedara College Roads – Environmental Assessment Practitioner and Environmental Compliance Officer. Client: Cedara Agricultural College.
- : Basic Assessment and Environmental Management Programme for the expansion of the Pongola Water Treatment Works – Environmental Assessment Practitioner and Environmental Compliance Officer. Client: Afri-Infra Group (Pty) Ltd on behalf of Zululand District Municipality.
- : Monthly environmental compliance monitoring and reporting for the construction and expansion of the Chota Motala Interchange, Greytown Road - Environmental Compliance Officer. Client: South African National Roads Agency Limited (SANRAL).
- : Monthly environmental compliance monitoring and reporting for the upgrade and construction of the Ndunge Access Road – Environmental Compliance Officer. Client: SMEC (Pty) Ltd on behalf of Ugu District Municipality.
- : Environmental Screening Report for the proposed Mini Steel Foundry at Schroeders – Environmental Assessment Practitioner. Client: AfroIndia Recyclers (Pty) Ltd.

2011 - 2012 : Position: Environmental Consultant

- : Environmental Management Programme for the upgrade of the Vulamehlo Access Road - Environmental Assessment Practitioner. Client: Impande Engineers (Pty) Ltd
- : Basic Assessment and Environmental Management Programme for the construction of the Bhekuzulu / Epangweni Community Water Supply Scheme - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers (Pty) Ltd on behalf of uThukela District Municipality.
- : Basic Assessment and Environmental Management Programme for the construction of the Swampu Phase 4 Community Water Supply Scheme, Impendle - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers on behalf of Umgungundlovu District Municipality.
- : Basic Assessment and Environmental Management Programme for the construction of the Enguga, Entshayabantu and Macksam (Phase 5) Community Water Supply Scheme, Impendle - Environmental Assessment Practitioner. Client: Sukuma Consulting Engineers on behalf of Umgungundlovu District Municipality.
- : Environmental compliance monitoring and reporting for the dredging of Camps Drift – Environmental Compliance Officer. Client: Natal Canoe Club.
- : Environmental Management Plan for the Alfred Nzo Borrow Pits – Environmental Assessment Practitioner. Client: Controlab CC.
- : Mining Permit Applications for the farms Bethel 683 HU, Driefontein 42 HU and Weltevreden 540 HU – Environmental Assessment Practitioner. Client: Huntrex 292 (Pty) Ltd.

Green Door Environmental

- 2010 – 2011** : Involved in various environmental application processes and report writing while under the employment of the company whilst fulfilling Masters studies responsibilities.

LANGUAGES

- English** : Excellent
Afrikaans : Fair
German : Fair

CURRICULUM VITAE



MAGNUS VAN ROOYEN

NAME OF FIRM : *TERRATEST (PTY) LTD*

NAME OF PERSON : *MAGNUS VAN ROOYEN*

NATIONALITY : *SOUTH AFRICAN*

DATE OF BIRTH : *1962/06/12*

PROFESSION : *ENVIRONMENTAL SCIENTIST*

QUALIFICATION : *MSc (Env Mngmt), Post Grad Dipl (Teaching), BSc (Hons)(Bot), BSc (Bot & Zoo)*

POSITION IN FIRM : *EXECUTIVE ASSOCIATE*

SPECIALISATION IN FIRM : *BASIC, SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENTS, BIODIVERSITY AND RIPARIAN / WETLAND ASSESSEMENTS, MINING RIGHT PERMITS AND APPLICATIONS*

YEARS OF EXPERIENCE : *13 YEARS*

YEARS WITH FIRM : *10 YEARS*

SUMMARY OF EXPERIENCE

Mr Van Rooyen is currently an Executive Associate and the Regional Head of the Environmental Division of a National Consulting Engineering Firm in South Africa. He is located in Pietermaritzburg, KwaZulu-Natal.

In addition to holding a Masters' degree in Environmental Management, he also holds a BSc degree in Botany and Zoology, an Honors Degree in Botany and a Post-Graduate Certificate in Education. He has 13 years' experience in projects involving Environmental Impact Assessments in various developmental sectors (Mining and Agricultural Sector, National Roads, Pipelines, Dams, and Residential Developments), conducting of Specialist Biodiversity Assessments associated with Environmental Impact Assessments and Project Feasibility Studies. He has experience in the compilation of Resettlement Policy Framework Plans associated with infrastructure development projects. Mr van Rooyen has experience in working on various private and public sectors as well as rural and urban environments in various countries.

Mr Van Rooyen's expertise lies within the mining sector where he has gained extensive exposure to all the aspects of mining projects from the pre-feasibility, prospecting, environmental impact assessment and implementation and monitoring stages. In addition, he has conducted Due Diligence Assessments as well as Environmental Compliance Monitoring and Management of a variety of mining sites.

PROFESSIONAL REGISTRATION

PrSciNat - Registered with the South African Council for Natural Scientific Professionals (SACNASP)
Registration No 400335/11

IAIAIlsa - Registered as a Member with the International Association of Impact Assessors – South Africa Suite, Membership No 1839

EDUCATION

1998 - BSc (Botany & Zoology) – University of Stellenbosch
1999 - Specialist Student (Dept of Agric) – University of Stellenbosch
2001 - BSc (Hons)(Botany) – University of Stellenbosch
2002 - Post Grad Dipl (Teaching) – University of Stellenbosch
2005 - Masters (Env Mngmt) – University of Stellenbosch

SPECIFIC EXPERIENCE

Terratest (Pty) Ltd

2007 – Date

Position – Project Manager, Senior Environmental Specialist

Project Management of an environmental contingent of 4 people and conducting Environmental Impact Assessments. Project experience included:

Biodiversity Assessment Projects

Mamatwan Tailings Facility - Biodiversity and Wetland Assessment for the site to be used for the establishment of the new tailings facility on the South32 Mamatwan Manganese Mine near Hotazel. Client: South32

Hillside Aluminum Desalination Plant - Biodiversity Screening Assessment for the infrastructure network associated with the South32 Hillside Aluminium Desalination Plant in Richards Bay. Client: South32

Lichtenburg Siding Expansion - Biodiversity Assessment for the proposed expansion of the Lichtenburg Cement Siding, North West Province.

Nacala Dam Project - Riparian Vegetation Study for the Ecological Reserve Determination Specialist Study for the Environmental Impact Assessment for the Nacala Dam Project in Mozambique.

National Route N8 - Vegetation Specialist Study for the Environmental Impact Assessment for the National Route N8.

National Route N2 uMgeni Interchange Improvements - Environmental Impact Assessment for proposed improvements to the uMgeni Road Interchange and the National Route N2. The project included an extensive public participation process within the city of Durban, KwaZulu-Natal during the process.

Qudeni Link Road - Vegetation Specialist Study for the Environmental Impact Assessment for the Qudeni Rural Link Road.

Municipal Landfill Site Identification - Negative mapping and ground truthing for the options analysis for the identification of a District Municipality Landfill Site.

Port Related Projects

Pier 1 Phase 2 expansion - Environmental Impact Assessment for proposed expansions to Pier 1 within the Durban Harbour.

Locomotive Turning Table in the Port of Richards Bay - Environmental Impact Assessment for proposed Locomotive Turn Table in within the Port of Richards Bay.

Rail line construction in the Port of Richards Bay - Environmental Impact Assessment for proposed additional rail line into the Richards Bay Coal Terminal in the Port of Richards Bay.

Environmental Monitoring

RME Projects Durban Harbour - Environmental Monitoring Duties for all the RME construction projects within the Durban harbour.

Ore Loading Facility at Kalia in Guinea- Environmental Impact Assessment for the proposed Ore Loading Facility in Kalia in Guinea, West Africa.

Roads Projects

National Route N2 uMgeni Interchange Improvements -Environmental Impact Assessment for proposed improvements to the uMgeni Road Interchange and the National Route N2. The project included an extensive public participation process with a range of public and private sector stakeholders.

National Route N11 upgrade - Environmental Impact Assessment for proposed upgrade of the National Route N11. The project included a public participation process with a range of public and private sector stakeholders as well as specialist studies associated with the river crossings.

National Route N2 improvement and upgrade - Environmental Impact Assessment for proposed upgrade of the National Route N2. The project included a public participation process with a range of public and private sector stakeholders as well as specialist studies associated with the river crossings.

National Route N3 Chota Motala Interchange Environmental Audits - Environmental Monitoring for the construction of the Chota Motala Interchange on the National Route N3.

National Route R30 Environmental Audits - Environmental Monitoring for the construction of the National Route R30.

Agricultural Projects

uMngano Community Dairy Development Project - Environmental and Social Impact Assessment for the Development of a 200ha dairy for the uMngano Community in KwaZulu-Natal, South Africa.

uMngano Community Vegetable Project - Environmental and Social Impact Assessment for the Development of a 180ha vegetable growing project for the uMngano Community in KwaZulu-Natal, South Africa.

Sundays River Citrus Project - Environmental and Social Impact Assessment for the Development of a 100ha citrus project in the Sundays River Valley in the Eastern Cape, South Africa.

Water Projects

Nacala Dam project in Mozambique - Environmental and Social Impact Assessment for the Nacala Dam project in Nacala, Mozambique. The study included the management of a range of specialist studies which included; biodiversity (fauna and flora) assessments, health impact assessments, social impact assessments, a

hydrocensus, geotechnical investigation and an ecological flow requirement assessment. Client: Millennium Challenge Corporation.

Mpofana Bulk Water Supply Scheme - Environmental Impact Assessment for the Bulk Water Supply Scheme which included an extensive public facilitation process with affected landowners and other specialist studies.

KwaHlokoHloko Rural Water Supply Scheme - Environmental Impact Assessment for the Rural Water Supply Scheme which included an extensive public facilitation process with the rural landowners and tribal leaders.

Conservation Management Plans

Ndumo Game Reserve Management Plan - Compilation of the Management Plan for the KwaZulu-Natal Wildlife Ndumo Game Reserve in northern KwaZulu-Natal. The compilation was conducted in accordance to the National Environmental Management: Protected Areas Act (No 57 of 2003). Client: KwaZulu-Natal Wildlife

Mining Projects

Uithoek Colliery - Environmental Impact Assessment for the establishment of the Uithoek Colliery including the management of a range of specialist studies which included a hydrological and geohydrological assessment, a biodiversity assessment, a social and heritage assessment and a repatriation plan for residents on the site. Client: Miranda Mineral Holdings

Burnside Colliery - Environmental Impact Assessment for the establishment of the Burnside Colliery including the management of a range of specialist studies which included a hydrological and geohydrological assessment, a biodiversity assessment, a social and heritage assessment and a repatriation plan for residents on the site. Client: Miranda Mineral Holdings

Ultimate Goal Colliery - Environmental Impact Assessment for the establishment of the Ultimate Goal Colliery including the management of a range of specialist studies which included a hydrological and geohydrological assessment, a biodiversity assessment, a social and heritage assessment and a repatriation plan for residents on the site. Client: Corobrik (Pty) Ltd

Klipwaal Gold Mine - Environmental Due Diligence assessment on the Klipwaal Gold Mine which included an assessment of completed and required rehabilitation, a contaminated land liability assessment and an evaluation of the structure and the possible impact of the slurry dams. Client: Miranda Mineral Holdings

Afrimat Quarries Compliance Audits - Compliance audits and Due Diligence assessments of the Afrimat Quarry operations in South Africa. These audits are conducted on a two-yearly basis. Client: Afrimat Quarries

Private and Public Sector Development Projects

Provincial Legislature Precinct - Environmental and Social Impact Assessment for the proposed Provincial Legislature Precinct. This study consisted of a large public facilitation component and extensive engagement with private and public sector stakeholders.

Camps Drift Canal Mixed Use Development - Environmental Impact Assessment for proposed improvements to the uMgeni Road Interchange and the National Route N2. The project included an extensive public participation process within the city of Durban, KwaZulu-Natal during the process.

Tiger Lodge Development - Environmental Impact Assessment for the proposed Tiger Lodge Tourism Development.

Paradise Lodge Development - Environmental Impact Assessment for the proposed Paradise Lodge Tourism Development.

Department of Conservation Ecology (University of Stellenbosch)

2002 - 2005

Position – Biodiversity Researcher

Conducted field work, sampling, laboratory work and logistics associated with two projects within the Conservation Ecology Department

Department of Botany and Zoology (Stellenbosch University)

2002 - 2005

Position – Junior Lecturer in Botany

Lectured the Botany practical component of the first-year Natural Science Degree.

Paul Roos Gymnasium (Stellenbosch, Western Cape, South Africa)

2001 - 2002

Position – Biology Teacher

Teaching the South African Biology curriculum to high school pupils.

Gene's Citrus Ranch (Bradenton, Florida, USA)

2000

Position – Farm Manager

Management of the day to day operations of an export citrus farm.

Marden Bridge Middle School (Witley Bay, Northumberland, United Kingdom)

1999

Position – Physical Education Teacher

Physical Educator associated with the Marden Bridge Middle School Sports Centre.

LANGUAGES

English : Excellent
Afrikaans : Excellent
German : Fair
Dutch : Fair
Zulu : Poor

CURRICULUM VITAE



LIZ DRALLE

NAME OF FIRM : *TERRATEST (PTY) LTD*

NAME OF PERSON : *LIZ DRALLE*

NATIONALITY : *SOUTH AFRICAN*

DATE OF BIRTH : *1981/07/02*

PROFESSION : *ENVIRONMENTAL ASSESSMENT PRACTITIONER*

QUALIFICATION : *BSc (Hons) (Env Mgmt), BSc (Env Mgmt)*

POSITION IN FIRM : *ENVIRONMENTAL SCIENTIST*

SPECIALISATION IN FIRM : *BASIC AND FULL ENVIRONMENTAL IMPACT ASSESSMENTS, ENVIRONMENTAL MANAGEMENT PROGRAMMES, COMPLIANCE MONITORING, MINING PERMITS & APPLICATIONS*

YEARS OF EXPERIENCE : *11 YEARS*

YEARS WITH FIRM : *3 YEARS*

SUMMARY OF EXPERIENCE

Liz Dralle graduated from the University of KwaZulu-Natal, Pietermaritzburg, with a BSc. Honours (cum laude) degree in Environmental Management. The focus of her studies included Geographical Information Systems (GIS), Environmental Impact Assessments (EIA), Geomorphology, Coastal Geomorphology, Biogeography, Natural Recourse Management, Sustainable Land Use, Climate Change and City Planning. Her Honours dissertation project involved an investigation into the possible benefits of Vetiver Grass as a soil erosion control medium.

On completion of her degree, Liz was employed by Afzelia Environmental Consultants cc. in the capacity of Environmental Consultant, specializing in agricultural and linear Basic Assessments. She was based in Nottingham Road, KZN Midlands. After one year at Afzelia Environmental Consultants, Liz moved to Durban, where was employed in the capacity of Environmental Scientist with SRK Consulting (Pty) Ltd. At SRK Consulting (Pty) Ltd, Liz was involved in a multitude of Environmental Impact Assessments (EIAs), focusing mainly on Industrial EIAs. Liz was also involved in several Equator Principle projects and also undertook the role as Environmental Control Officer (ECO) for several monitoring projects.

In 2010, Liz was approached by Environmental Impact Management Services (Pty) Ltd, to act as full time ECO for the Transnet New Multi-Purpose Pipeline (NMPP) Project, running from the Port of Durban to Johannesburg. Liz's role was to undertake daily Environmental Site Audits of her designated area, which started from Ashburton, just outside of Pietermaritzburg, to the Tugela River crossing on the N3. In total, a length of 151km. Further responsibilities included borrow pit identification, Public Participation in the form of monthly Community Liaison Forums, one-to-one interaction with affected landowners, as well as designated Land Liaison Officers. Contractor

interaction was required on a daily basis, as well as specialist interaction, specific to the rehabilitation of wetlands, post construction.

After a year on the NMPP Project, Liz joined JEC Environmental Services cc in the capacity of Environmental Consultant. Here Liz undertook several EIAs, focusing mainly on the agricultural sector in the form of piggery and cultivation of virgin land applications, as well as biogas installations. Liz also undertook several Waste Licence Applications. In May 2014, Liz joined Jeffares & Green (Pty) Ltd in the position of Environmental Scientist.

Liz is an IEMA certified Environmental Auditor. She also prescribes to the International Association for Impact Assessment South Africa (IAIASa) code of conduct and has been a member since 2007. She has also served on the KZN IAIAAsa branch committee.

SOCIETY MEMBERSHIP

IAIA SA KZN : Member of the International Association for Impact Assessment – Membership No 2154

EDUCATION

1999 – Matric – Pietermaritzburg Girls' High School

2000 – Diploma in Business Computing – Varsity College, Pietermaritzburg

2005 – BSc (Environmental Management) – University of KwaZulu-Natal

2006 – BSc Hons (Environmental Management) *Cum laude* - University of KwaZulu- Natal

SPECIFIC EXPERIENCE

Terratest (Pty) Ltd

2014 – Date

Position – Environmental Scientist

Environmental Impact Assessments

- Development of the Midlands Biogas and Fertiliser Plant, Pietermaritzburg, KZN: Client – Midlands Biogas and Fertiliser.
- Construction of the Marine Parade Soakaway, Durban Beachfront, KZN: Client – EThekweni Municipality.
- Development of Pier 1, Phase 2, Salisbury Island Infill, Port of Durban, EThekweni Metropolitan, KZN: Client – Transnet SOC Limited.
- Proposed regional landfill site, Umgungundlovu District Municipality, KZN: Client - Umgungundlovu District Municipality.
- Relocation of assets on Salisbury Island, Port of Durban, EThekweni Metropolitan, KZN: Client - Transnet SOC Limited.
- Development of a Slimes Handling and Bulk Water Storage Facility at Mamatwan Mine, near Hotazel, Northern Cape: Client – South32 Hotazel Manganese Mines.
- Construction of the Lombardskop Pipeline, Ladysmith, KZN: Client – WNM Consulting (Pty) Ltd.
- Construction of the Ideal Shavings Poultry Breeders Facility, Dargle, Umngeni Local Municipality, KZN: Client - Ideal Shavings.
- Construction of three footpaths, Ward 53: Zimbabwe Community, Amaoti area, KwaMashu, EThekweni Municipality, KZN: Client - Nankoo Engineers (Pty) Ltd.
- Construction of three roads, Ward 57: Moscow Community, Amaoti area, KwaMashu, EThekweni Municipality, KZN: Client - Nankoo Engineers (Pty) Ltd.

- Construction of the Woodhouse Road pedestrian bridge, Scottsville, Pietermaritzburg; KZN: Client – Henwood and Nxumalo (Pty) Ltd.
- Upgrade of the Ndumo Ring Road, Ndumo, Northern KZN: Client - RHDHV (Pty) Ltd.
- Construction of the Ladysmith Ring Road, KwaZulu-Natal: Client – Aecom (Pty) Ltd on behalf of SANRAL.
- Transformation of agricultural land on 92 subdivisions, Mount Verde, Hilton, uMngeni Local Municipality, KZN: Client – Mt. Verde Estate.
- Residential Development on the Old Dairy Site, Hilton College, Hilton, UMngeni Municipality, Umngeni Local Municipality, KZN: Client - Hilton College.
- Amendment to the proposed Greater Mpofana Bulk Water Supply Scheme, UMgungundlovu District Municipality: Realignment of a portion of the authorised pipeline: Client -Umngeni Water.

Waste Management Licence Applications

- Development of the Midlands Biogas and Fertiliser Plant, Pietermaritzburg, KZN: Client – Midlands Biogas and Fertiliser.
- Decommissioning of the Goswell Developments Landfill Site, Cato Ridge, EThekwini Municipality, KZN: Client – Goswell Developments (Pty) Ltd.
- Proposed regional landfill site, Umgungundlovu District Municipality, KZN: Client - Umgungundlovu District Municipality.
- Development of a Slimes Handling and Bulk Water Storage Facility at Mamatwan Mine, near Hotazel, Northern Cape: Client - South32 Hotazel Manganese Mines.

Mining Applications

- Establishment of a staged mobile crushing plant within the current footprint of the Amasundu Gravel cc quarry pit: Client – Amasundu Gravel cc.
- Application for Sand Mining Permit, Eston, KwaZulu-Natal: Client – RS Transport (Pty) Ltd.
- Midmar Crushes EMPr Amendment KZN: Client – Midmar Crushes (Pty) Ltd.
- Application for Prospecting Right, Midmar Crushes, KZN: Client – Midmar Crushes (Pty) Ltd.
- Application for Sand Mining Permit, Mvoti River, KZN: Client – Mrs B. Naiker.
- Application for Sand Mining Permit, Upper Tugela River, KZN: Client - Madinka 76 cc.
- Environmental Management Plan for Kulucrete Mining, KZN: Client - Kulucrete Mining.

Water Use Licence Applications

- Khombe River Bridge, KZN: Client – Ibongo Consulting Engineers (Pty) Ltd.
- Upgrading of the D168, KZN: Client – Emzansi Engineers (Pty) Ltd.

EMPr

- Development of Fuel Filling Station, Bridge City, KwaMashu, EThekwini Municipality, KZN: Client – Afzelia Environmental Consultants (Pty) Ltd.
- Fuel Filling Station, 13 Hope Street, Kokstad, KZN: Client – New Adventure Investments 38 (Pty) Ltd.
- Fuel Filling Station on 540 Sibhubhu Road, Imbali, Pietermaritzburg, KZN
- Fuel Filling Station on Mahlabathini Road, Ceza, Ulundi, KZN: Client – Mr Buthelezi.
- Fuel Filling Station on 79/81 Victoria Road, Pietermaritzburg, KZN: Client - New Adventure Investments 38 (Pty) Ltd.

Environmental Control Officer duties

- Construction of Cell 4B: Phase 1, Oatlands Landfill, Ray Nkonyeni Local Municipality, KZN – Client: Ray Nkonyeni Municipality.
- Construction of Cell 4B: Phase 2, Oatlands Landfill, Ray Nkonyeni Local Municipality, KZN – Client: Ray Nkonyeni Municipality.
- Construction of the Eteza Interchange, Northern KZN: Client - Worsley Parsons (Pty) Ltd.
- Construction of the Midlands Biogas Midlands Biogas and Fertiliser Plant, uMshwathi Local Municipality, KwaZulu-Natal – Client: Midlands Biogas and Fertiliser.
- Upgrade and construction of Bhekuzulu/Epangweni Community Water Supply Scheme, KZN: Client - Worsley Parsons (Pty) Ltd.
- Waste Management Licence Audit at Goswell Developments, Cato Ridge, KZN: Client - Goswell Developments (Pty) Ltd.
- Biennial Environmental Audit at Goswell Developments, Cato Ridge, KZN: Client - Goswell Developments (Pty) Ltd.
- Permit Compliance Audit Report (July 2015) for the Goswell Developments Aluminium Disposal Site, Cato Ridge, KZN: Client - Goswell Developments (Pty) Ltd.
- Permit Compliance Audit Report (October 2016) for the Goswell Developments Aluminium Disposal Site, Cato Ridge, KZN: Client - Goswell Developments (Pty) Ltd.
- Environmental Due Diligence Assessment for the Belgie Breeder Facility located near Bloemfontein, Free State – Client: Sovereign Foods (Pty) Ltd.
- Environmental Due Diligence Assessment for the Belgie Hatchery Facility located near Bloemfontein, Free State – Client: Sovereign Foods (Pty) Ltd.
- Environmental Due Diligence Assessment for the Botshabelo Abattoir and Rendering Plant located near Bloemfontein, Free State – Client: Sovereign Foods (Pty) Ltd.
- Environmental Due Diligence Assessment for the Kelly's View Breeder Facility located near Bloemfontein, Free State – Client: Sovereign Foods (Pty) Ltd.
- Environmental Due Diligence Assessment for the Nutri-feeds Mill located near Bloemfontein, Free State – Client: Sovereign Foods (Pty) Ltd.

Environmental Screening

- Development of a dedicated leachate treatment plant, Oatlands Landfill Site, Port Shepstone, Ray Nkonyeni Local Municipality, KwaZulu-Natal – Client: Ray Nkonyeni Municipality.
- Proposed Wembezi Water Conservation and Demand Management Bulk Water and Reticulation scheme upgrade, Inkosi Langalibalele Local Municipality, KwaZulu-Natal – Client: JG Afrika (Pty) Ltd.
- Construction of a house and associated infrastructure on Portion 33, Mt. Verde Estate, KZN: Client - Mr I. Bromage.
- Site Assessment on Portion 405/885 of the Farms Vaalkop and Dadelfontein No. 885, for the proposed development of a Light Industrial Park, Umlaas Road, KwaZulu-Natal: Client - AquaTrans (Pty) Ltd.
- Upgrading of footpaths and roads, Ward 59: Moscow, EThekweni Metropolitan, KZN: Client - Nankoo Engineers (Pty) Ltd.
- Upgrading of footpaths and roads, Ward 60: Ivy Close, EThekweni Metropolitan, KZN: Client - Nankoo Engineers (Pty) Ltd.
- Upgrading of footpaths and roads, Ward 62: Jan Roz, EThekweni Metropolitan, KZN: Client - Nankoo Engineers (Pty) Ltd.
- Upgrading of footpaths and roads, Ward 58: Lungelani, La Mercy, EThekweni Metropolitan, KZN: Client - Nankoo Engineers (Pty) Ltd.

- Upgrading of footpaths and roads, Ward 61: Ndliyomlilo, Tongaat, EThekweni Metropolitan, KZN: Client - Nankoo Engineers (Pty) Ltd.

JEC Environmental Services cc

2011 - 2014

Position – Environmental Scientist

Environmental Impact Assessments

- Construction of a 160 sow piggery on Erf 189, Weenen, KZN: Client - Agribusiness Development Agency.
- Relocation of Existing Wood Pole Turning and CCA Treatment Plant from Schroeders to Cramond, Umshwathi Municipality, KZN: Client - F.A.R. Timbers cc.
- Clearance of 40 hectares of indigenous grassland ('veld') for cultivation, KwaSani Local Municipality, KwaZulu-Natal: Client - Flemmington Farming.
- Clearance of 35 hectares of indigenous grassland ('veld') for the cultivation of annual crops such as radishes and maize, KwaSani Local Municipality, KwaZulu-Natal: Client - Clowes Farming.
- Construction of a new Water Reservoir and Water Reticulation infrastructure, Thendele Community, Mpofana Local Municipality, KwaZulu-Natal: Client - Jeffares & Green (Pty) Ltd.
- Establishment of an Effluent Treatment Plant, 14 Oldfield Road, Mkondeni, Msunduzi Local Municipality, Umgungundlovu District Municipality: Client - Ramsay Engineering (Pty) Ltd.
- Construction of the Acaciavale – eZakheni Link Road, Ladysmith, Emnambithi Municipality, KZN: Client - EVN Africa Consulting Services (Pty) Ltd.
- Construction of a Biogas Facility at Baynesfield Estate Piggery, Richmond Municipality, KZN: Client - Joseph Baynes Estate.
- Expansion of Piggery Operations on Portion 21 Hardig and Rem of Farm Rhenosterpoort 455, Modimolle Municipality, Waterberg District, Limpopo Province: Client - Greyling Vark Bordery (Pty) Ltd.

Waste Management Licence Applications

- Merrivale Compost Waste Management Licence, uMgeni Municipality, KZN: Client - Nutrex Earth Matters.
- Waste Management Licence for Tongaat Hulett's Amatikulu Mill, KZN: Client - Tongaat Huletts Ltd;
- Construction of a 160 sow piggery on Erf 189, Weenen – Client: Agribusiness Development Agency;
- Proposed construction of a Biogas Facility at Baynesfield Estate Piggery, Richmond Municipality, KZN: Client - Joseph Baynes Estate.
- Waste Management Licence application for the existing Mfolozi Waste Transfer Station in KwaMbonambi, Mfolozi (previously Mbonambi) Local Municipality, northern KZN: Client - Mfolozi Local Municipality.
- Expansion of Piggery Operations on Portion 21 Hardig and Rem of Farm Rhenosterpoort 455, Modimolle Municipality, Waterberg District, Limpopo Province: Client - Greyling Vark Bordery (Pty) Ltd.

Environmental Control Officer duties

- Environmental Audit for the expansion of the Baynesfield Estate Piggery, Richmond Municipality: Client - Joseph Baynes Estate.

Environmental Impact Management Services (Pty) Ltd

2010 - 2011

Position – Environmental Control Officer

Environmental Auditing

- Daily Environmental Control Officer duties for the construction and installation of the New Multi-Purpose Pipeline (NMPP) – Client: Transet SOC Limited.

SRK Consulting South Africa (Pty) Ltd

2007 - 2010

Position – Environmental Scientist

Environmental Impact Assessments

- Incorporation of Flyash into NPC-Cimpor products, Newcastle, KZN: Client - Natal Portland Cement (Pty) Ltd.
- Construction and Operation of a Second Cement Mill at NPC – Cimpor, Simuma Facility, near Port Shepstone, KZN: Client - Natal Portland Cement (Pty) Ltd.
- Storage and Utilisation of Alternative Fuels and Resources at Natal Portland Cement’s Simuma Facility, Port Shepstone, KZN: Client - Natal Portland Cement (Pty) Ltd.
- Establishment of a flood attenuation facility in the Palmiet River catchment, Padfield Park, Pinetown, KZN: Client - EThekweni Municipality.
- Construction and Operation of a Calciner at Foskor and a Rapidwall Plant at ERF1906, Alton, Richards Bay, KZN: Client - Foskor Limited.
- Environmental Management Plan for the Mondi Odour Abatement project, Richards Bay, KZN: Client – Mondi Limited.
- Installation of Underground Storage Tanks at the Car Rental Facilities at the King Shaka Airport, La Mercy, KZN: Client - Natural Resources Institute.
- Decommissioning of MSMA Plant, Dow AgroSciences, Verulam, KZN: Client - Dow Chemicals.
- Installation of the SEA Cable System, KZN North Coast, South Africa - Client: SEACOM / NEOTEL;
- Installation of an Underground Storage Tank for “Non-Aromatic” White Spirits, Pinetown, KZN: Client - Sara Lee (Pty) Ltd.
- Construction of the Wembezi Interchange at National Route 3 and Main Road 29, Wembezi / Estcourt, KZN: Client - Jeffares & Green (Pty) Ltd.

Environmental Control Officer duties

- Post-construction auditing of the various cable stations constructed for the use of the SEACOM telecommunications cable: Client - SEACOM / NEOTEL.
- Due diligence audit of the Tyco Cable Laying Vessel of the SEA Cable System: Client - SEACOM / NEOTEL.
- Environmental Compliance Audit for the Installation of Aboveground Storage Tanks, Phoenix, EThekweni Municipality: Client - ABI (Pty) Ltd.

Afzelia Environmental Consultants cc

2006 - 2007

Position – Environmental Scientist

Environmental Impact Assessments

- Construction of “Baronberg Estate” on the Farm Blair Atholl No. 15735, Mooi Mpfana Municipality, KZN: Client - Baronberg cc.
- Cleopatra Extension, KZN Midlands: Client – Cleopatra (Pty) Ltd.
- Construction of Chicken Houses on Hanbury Farms, Farm No 4, Ashley Grange, D174, Merrivale / Mpophomeni, KZN: Client - Hanbury Chickens (Pty) Ltd.
- eSikheshini community access road upgrade, Ingwe Local Municipality, Sisonke District Municipality, KZN: Client - Ingwe Local Municipality.
- “Hillside” development on the Remainder of Portion 99 (of 25) of the Farm Gowrie No. 1930, Nottingham Road, uMngeni Local Municipality, KZN: Client - Rawdons Country Estate.
- Development of a water pipeline from Sundumbili reticulation reservoir A to Mandeni Bulk Gravity Main and on to Rocky Ridge Reservoir; including an additional pipeline to the Tugela Water Treatment Works, Mandeni, Ilembe Municipality, KZN: Client - SSI (Pty) Ltd.
- Resort and Spa Development on the North Bank of the Thukela Mouth, Portion 1 of Ayinkindaba No. 11678, Portion 5 of 3 of Ayinkindaba No. 11678, and Portion 2 and 3 of Reserve No. 7A No. 15826. Mandeni Local Municipality, KZN: Client – Private developer.
- “Tugela Tides” resort on the North Bank of the Thukela Mouth, on remainder of Portion 3 of Ayinkindaba No 11678, and portion 4 of 3 of the farm Ayinkindaba No 15826. Mandeni Local Municipality, KZN: Client – Private developer.
- Upgrading of the Umzimkhulu pedestrian bridge, Sisonke District Municipality, KZN - Client: Umzimkhulu Municipality.
- Development of a poultry enterprise on the Remainder of Wilde Perde Vlei no. 1004, Winterton, uThukela Municipality, KwaZulu-Natal - Client: Private developer.

LANGUAGES

English : Excellent
Afrikaans : Fair